d/b/a Lamb-Weston (Connell Facility)

### **SUMMARY**

The Lamb-Weston Connell facility processes freshly harvested and stored potatoes into french fries and formed potato products year around. Process wastewater is pre-treated by a constructed wetland system then land applied to approximately 1200 acres for final treatment. A lined pond is available to store the wastewater during the winter non-growing season. Nitrogen and water loading from the wastewater to the sprayfields have been less than the crop requirements.

The dry conditions of an upgradient well in one part of the sprayfield system and the absence of ground water monitoring in another part, due to the absence of unconfined ground water, preclude the determination of background ground water conditions for the most of the sprayfield site.

In place of ground water-based limits to evaluate the operations of the sprayfields and the protection of the ground water beneath the site, an expanded soil monitoring plan has been put into the permit. In addition, the Permittee will be required to submit a long-term (10 yr) crop plan that estimates the nitrogen and water loading capacity of the sprayfields, the leaching requirement, and a description of how the leaching requirement will be met and protect the ground water. The net nitrogen loading to the sprayfields will be limited to the crop requirements as determined and presented in the most recent Irrigation and Crop Plan.

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### INTRODUCTION

This fact sheet is a companion document to the draft State Waste Discharge Permit No. **ST-5328** 

ConAgra Foods Packaged Foods Company, Inc. . The Department of Ecology (the Department) is proposing to issue this permit, which will allow discharge of wastewater to waters of the State of Washington. This fact sheet explains the nature of the proposed discharge, the Department's decisions on limiting the pollutants in the wastewater, and the regulatory and technical bases for those decisions.

Washington State law (RCW 90.48.080 and 90.48.162) requires that a permit be issued before discharge of wastewater to waters of the state is allowed. Regulations adopted by the state include procedures for issuing permits (Chapter 173-216 WAC), and water quality criteria for ground waters (Chapter 173-200 WAC). They also establish requirements which are to be included in the permit.

This fact sheet and draft permit are available for review by interested persons as described in Appendix A--Public Involvement Information.

The fact sheet and draft permit have been reviewed by the Permittee. Errors and omissions identified in these reviews have been corrected before going to public notice. After the public comment period has closed, the Department will summarize the substantive comments and the response to each comment. The summary and response to comments will become part of the file on the permit and parties submitting comments will receive a copy of the Department's response. The fact sheet will not be revised. Changes to the permit will be addressed in Appendix D-Response to Comments.

	GENERAL INFORMATION
Applicant	ConAgra Foods Packaged Foods Company, Inc.
Facility Name and Address	d/b/a Lamb-Weston 811 Gum Street Connell, WA 99326
Type of Facility	Potato processing
Type of Treatment:	Constructed wetland and land treatment via spray irrigation
Discharge Location	S. of State Hiway 260, E. of Warehouse Rd, W. of Moon Rd in Sec. 33 and 34, T. 14N, R. 31 E.W.M.
	Latitude: 46° 39' 22" N Longitude: 118° 55' 13" W.
	N. of State Hiway 260, along Moon Rd., E ½ Sec. 10, W ½ Sec. 11, NW ¼ Sec 14, T. 14N, R. 31 E.W. M.  Latitude: 46° 42' 52" N  Longitude: 118° 53' 52" W.
Contact at Facility	Name: Mike DeWulf, Engineering Manager Telephone #: 509-234-5511, Ext. 66700

	GENERAL INFORMATION
Responsible Official	Name: Dave Larson Title: Operations Manager Telephone #: 509-234-5511 ext: 200 FAX # 234-5515

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### **BACKGROUND INFORMATION**

### DESCRIPTION OF THE FACILITY

The Lamb-Weston facility at Connell, WA (Franklin Co) is located along State Highway 395 approximately 25 miles north of Pasco; (Fig. 1). Freshly harvested and stored potatoes are processed into French fries and formed potato products year around. Wastewater from the process is filtered, settled, biologically treated in a constructed wetland, and land applied via spray irrigation for final treatment. The facility has been and is currently permitted to discharge the wastewater via spray irrigation; permit No. ST-5328).

### INDUSTRIAL PROCESSES

Raw potatoes are washed, steam pealed, preheated and cut into French fries, which are then blanched, dried, batter coated (optional), fried, cooled, frozen, and finally packaged. Formed potato products are also produced by shredding the smaller, shorter fries. Soy based oils are predominately used for cooking.

According to information presented in the permit application, approximately 2.5 million pounds of raw potatoes are processed each day. Except for scheduled downtimes for O&M and sanitation, the facility operates year around, 24hrs/day.

The water used to wash the raw potatoes is reused until its solids (dirt) content requires it to be discharged to a settling pit. The settled dirt is land applied and the water is sent to the process wastewater system.

### TREATMENT PROCESSES

The treatment process is comprised of pretreatment, a constructed wetland for biological treatment, and land treatment via spray irrigation.

### Pretreatment

All process wastewater at the facility is collected in an open floor trench system and is sent to a clarifier via a single discharge pipe. The water is screened before entry into the clarifier. The clarifier solids are dewatered using a vacuum drum system and hauled off site for cattle feed. The solids water is sent through a CAF (cavitation air flotation system) to remove additional solids.

Water from the clarifier and CAF unit is pumped (metered) to an earthen walled and lined 700,000 gallon surge basin and then to the first cells of the constructed wetland.

### Constructed wetlands

The wetlands were engineered and constructed on land previously used for general agriculture, and all of the wetland components are HDPE lined. The wetland system (39.5 acres) is comprised of three parts that were designed to perform different treatment functions.

1. The W1 and W2 series (Fig. 2) are open water wetlands that have been planted in cattails and other emergent plants. They are operated in parallel. The initial cells (W1.1, W1.2,

- W2.1, W2.2) were designed primarily as solids traps. The remaining W1 and W2 cells allows for the mineralization of organic nitrogen and the reduction of COD, nitrification and denitrification, and volatilization to remove nitrogen. The effluent from the W1 and W2 series has showed a 90% reduction in TSS and COD (Kirkbride Group, 1998).
- 2. The W3 series (Fig 2) are downflow sand beds and were designed and are operated to promote the nitrification process. Wastewater from the W1 and W2 series is sprinkled on the beds and the ammonia nitrogen is converted to nitrate nitrogen as the water percolates through the beds. An underdrain system collects the wastewater and is sent to the next series.
- 3. The W4 series (Fig 2) are open water wetlands with emergent vegetation that are operated to promote denitrification. A small stream of raw wastewater is added to provide a carbon source for the process. The water from this series is sent to a lined storage impoundment (135 million gallons) from which it is pumped to the land treatment fields.

### Land treatment

The land treatment sprayfields are located in two separate areas:

- 1. The LWC Farm fields are owned by Lamb-Weston and are located just west of the processing facility (Figs 1 and 3). They are comprised of center pivot, hand sets, and wheel lines, and total 525 acres.
- 2. The Paradise fields are located approximately three miles north of the LWC Farm site (Figs. 1 and 4) and are leased by Lamb-Weston. These are center pivot fields that total approximately 635 acres.

Wastewater is pumped from the storage pond to a central Mix Tank (Fig 3) where the wastewater is directed to the different fields and applied using center pivot, wheel line, or hand line systems. The wastewater can be mixed at the tank with supplemental irrigation water, but is generally not.

Information presented in the annual Farm Summary Operations reports was reviewed to gather information on the sprayfields for the period 1999-2003 (2000a, 2001, 2002, 2003, 2004).

### Nitrogen loading

	Annual Process Wastewater (MG)	Net wastewater nitrogen (lbs)	Nitrogen removed by crops (lbs)	Leaching fraction
1999	293	71,800	217,000	0 - 11%
2000	310	83,600	211,300	0 - 20%
2001	283	92,200	208,000	0 – 5.5%
2002	311	69,700	356,000	0 - 2.7%
2003	305	100,200	428,300	0-3.1%

The amount of nitrogen removed by the crops has consistently been greater than the amount added from the wastewater. The variation in the amount of nitrogen removed is a function, in part, of crop yield. The large increase in nitrogen uptake in 2002 relative to nitrogen loading was attributed to higher crop yields of alfalfa and that more fields were cropped in alfalfa.

The net amount of nitrogen applied to the land treatment fields from the process wastewater accounts for nitrogen loss via volatilization and denitrification. The values are low when compared to similar potato processing facilities. This is due to the low nitrogen content of the wastewater as a result of treatment by the wetlands. A comparison of wastewater nutrient data for the Connell facility with a similar type processing facility not using a biological pretreatment system shows the difference in strength of the final wastewater applied to the sprayfields.

	Connell facility	Similar facility
Avg. TKN	32.6 mg/L	132 mg/L
Avg. ammonia-N	25.6 mg/L	53.8 mg/L
Avg. COD	149 mg/L	2329 mg/L

Net nitrogen loading to the Connell facility fields ranged from 1-173 lbs/acre during the period 1999 through 2003. Most fields showed a negative nitrogen balance; more nitrogen removed by crop uptake then by nitrogen added by wastewater plus commercial fertilizer. Supplemental commercial fertilizer is sometimes added to meet the crop requirements.

The volume of water applied to each field is metered. Hydraulic loads to each field vary each year resulting in leaching fractions (% net water input percolated past the root zone) from 0-20% with values generally being less than 5% since 2000. Supplemental water is generally required to meet the crop demand.

### COD and Fixed Dissolved Solids loading

	COD (lbs/acre)	Fixed Dissolved Solids (lbs/acre)
1999	24 - 604	356 - 7289
2000	9 - 594	184 - 6438
2001	54 - 674	868 – 7374
2002	116 – 415	925 – 4840
2003	8 – 671	111 - 6175

Load values for COD ranged from 8-674 lbs/acre. Daily load rates have always been less than the 50-100 lbs/acre/day that is sometimes considered the maximum acceptable load to prevent anoxic soil conditions.

Salt loading ranged from 111 - 7374 lbs/acre. Because salt loads exceed crop requirements, irrigation management is used to control soil salinity by leaching. This is typical of most vegetable/potato land treatment systems.

### GROUND WATER

The site is located in the Columbia Plateau that is underlain with basalt and covered by sedimentary deposits composed of sand, gravel, cobbles, and boulders. The Columbia River Basalt Group and the interflow materials make up the aquifer system at the site.

Ground water flows horizontally in the interflow zones and there is minimal vertical movement between the zones through the basalt fractures. Ground water in the uppermost basalt flows is usually confined while deeper zones have confined aquifer systems. Most irrigation wells are finished in the deeper water bearing zones. Ground water pumping may have caused the direction of general ground water flow at the site to change from southwesterly in area around the site to southeast. Based on ground water elevations collected between 2001 and 2004, the direction of ground water flow has predominately been to the east-southeast.

### LWC Farm

The uppermost ground water at this sprayfield site is located in two separate stratigraphic loactions; the Wanapum interflow zone (IFZ) and the T-Lake water bearing zone (WBZ) encountered within the Saddle Mountain basalt. The Wanapum IFZ is located between basalt flows and is in the easterly portion of the site. It is monitored by wells MW-15, -16, and -17; Fig. 3. Results of the most recent hydrogeologic study of the site concluded that the presence of a thick low permeable formation above the basalt at MW-17, and the presence of a thick and poorly fractured basalt layer at MW-15, -16, and -17 provide conditions of a low risk of any impact to the ground water from the fields (CES, 1999b).

The T-Lake WBZ is in the westerly portion of the site west of Buehler Rd. and is monitored by MW-12, -18, and -19 (Fig. 3.). It is topographically approximately 150ft higher than the Wanapum IFZ and does not appear to be hydraulically connected to it (CES, 1999b). The 1999 hydrogeologic report states that the direction of ground water flow in this zone is to the south, with MW-18 being the most upgradient. However, ground water elevation data for the period January 2000 through December 2003 shows ground water flow to be to the east-southeast, with MW-12 (mean elev. 962.45 ft) being the most upgradient well; MW-18, 954.76 ft; MW-19, 954.08 ft. Discharge from the T-Lake WBZ may contribute to the flow from the spring located near the Farm Drain adjacent to the C6 sprayfield; Fig. 3. The source of the T-Lake water is unknown but may be seepage from a nearby irrigation canal.

MW-18 and -19 were installed in September 1999 to provide additional ground water data for the T-Lake WBZ, and potentially function as up- and downgradient wells, respectively. MW-12 had previously been installed (Nov. 1992).

The average nitrate and TDS values at MW-18 (7.3 and 280 mg/L; Addendum 1) are below the ground water criteria. The average nitrate value at MW-12 (10.5 mg/L) is higher than the MW-19 value (6 mg/L). The average TDS concentrations at MW-12 and MW-19 are similar (371 and 351 mg/L).

### Paradise fields

Lamb-Weston's review of well logs in the vicinity of the site showed a median depth to the basalt was 18ft below ground surface (bgs) and the median well depth is 1200ft bgs. The results of exploratory borings showed the presence of hard, unfractured basalt at intervals of five feet or greater and that unconfined ground water is not present beneath the site (CES, 1999b). Therefore, monitoring wells were not installed at the site.

### **GROUND WATER QUALITY**

### LWC Farm -Wanapum IFZ

A summary of ground water data for MW-15 and -16 is presented in Addendum 1. The average values for nitrate and TDS at MW-15 (9.3 and 303 mg/L) are less than the ground water criteria (10 and 500 mg/L), while those for MW-16 (17.8 and 586 mg/L) exceed the criteria. A time series analysis of the nitrate and TDS data at MW-16 shows a decreasing trend for both parameters since January 1999. TDS values in late 2003 were less than 500 mg/L and nitrate values are near 11-12 mg/L.

Both wells were installed in January 1995, have nearly identical well depths (approximately 175ft), and are screened at identical depths (150-170ft). The water levels in both wells only vary slightly during the year.

MW-17 has been dry since it was installed, therefore upgradient conditions are not known for the Wanapum IFZ.

### LWC Farm -- T-Lake WBZ

The average nitrate concentration at MW-12 (10.5 mg/L) is slightly higher than the ground water criteria (10 mg/L), while the values at MW-18 and -19 (7.3 and 6 mg/L) are less (Addendum 1). The average TDS value at each well is less than the ground water criteria value (500 mg/L).

### Other Ground Water Data

Ground water data has been collected from other wells located near an area that was previously the land treatment site (Fig 3, Old Farm). The irrigation of wastewater to these fields stopped in 1996. Data from these wells (MW-1R, MW-2, MW-11) shows nitrate and TDS values generally below the ground water criteria. MW-10 has been dry for many years.

### Farm Drain

A subsurface drainage collection system extends beneath fields C4, C5, and C8 and day lights at a Farm Drain located along the southern edge of the LWC Farm site; Fig. 3. A review of data collected at the drain shows nitrate and TDS values below the ground water criteria; Addendum 1.

### PERMIT STATUS

The previous permit for this facility was issued on December 23, 1998 and expired on June 30, 2004. A temporary permit was issued in a letter dated July 1, 2004.

An application for permit renewal was submitted to the Department on December 23, 2003 and accepted by the Department on February 13, 2004.

### SUMMARY OF COMPLIANCE WITH THE PREVIOUS PERMIT

The facility last received an inspection on November 19, 2003. The facility was found to be in general compliance with the conditions of the permit.

During the history of the previous permit, the Permittee has remained in compliance based on Discharge Monitoring Reports (DMRs) and other reports submitted to the Department and inspections conducted by the Department.

### WASTEWATER CHARACTERIZATION

The concentration of pollutants in the discharge was reported in the permit application and in discharge monitoring reports. The proposed wastewater discharge prior to land application is characterized for the following parameters as presented in the permit application.

**Table 1: Wastewater Characterization** 

Parameter	Concentration
COD (mg/L)	Range: 69-364 Avg = 149
Conductivity (umhos/cm)	Range: 2570-3150 Avg = 2856
Ammonia-N (mg/L_	Range: 1.9-50.8 Avg = 25.6
pH (s.u.)	Range: 7.5-9.03
Fixed dissolved solids (mg/L)	Range: 1318-1926 Avg = 1582
Nitrate+Nitrite-N (mg/L)	Range: 0.1-154 Avg = 13.5
TKN – N (mg/L)	Range: 8.3-77 Avg = 32.6
Total phosphate-P (mg/L)	Range: 28-32.9 Avg = 30.5
Sodium (mg/L)	Range: 205-217 Avg = 211
Potassium (mg/L)	Range: 344-367 Avg = 356
Chloride (mg/L)	Range: 265-306 Avg = 285

### PROPOSED PERMIT LIMITATIONS

State regulations require that limitations set forth in a waste discharge permit must be either technology- or water quality-based. Wastewater must be treated using all known, available, and reasonable treatment (AKART) and not pollute the waters of the State. The minimum requirements to demonstrate compliance with the AKART standard were determined in the

engineering reports (CES, 1994; CES, 1995; CES, 1999a) in conformance with Guidelines for the Preparation of Engineering Reports for Industrial Wastewater Land Application Systems, May 1993.

The more stringent of the water quality-based or technology-based limits are applied to each of the parameters of concern. Each of these types of limits is described in more detail below.

### TECHNOLOGY-BASED EFFLUENT LIMITATIONS

All waste discharge permits issued by the Department must specify conditions requiring available and reasonable methods of prevention, control, and treatment of discharges to waters of the state (WAC 173-216-110). The following permit limitations are necessary to satisfy the requirement for AKART:

- 1. Wastewater shall be land applied via spray irrigation not to exceed agronomic rates (as defined in the Department's ground water implementation guidance) for total nitrogen and water, and at rates for other wastewater constituents that are protective of background ground water quality.
- 2. Total nitrogen and water shall be applied to the sprayfields as determined by a current irrigation and crop plan.
- 3. The system must be operated so as to protect the existing and future beneficial uses of the ground water and not cause a violation of the ground water standards.
- 4. Average daily flow to the wetland (from the clarifier) of 1.84 MGD. This is based on the design flow for the wetland system (The Kirkbride Group, 1998).

### GROUND WATER QUALITY-BASED EFFLUENT LIMITATIONS

In order to protect existing water quality and preserve the designated beneficial uses of Washington's ground waters including the protection of human health, WAC 173-200-100 states that waste discharge permits shall be conditioned in such a manner as to authorize only activities that will not cause violations of the Ground Water Quality Standards. The goal of the ground water quality standards is to maintain the highest quality of the State's ground waters and to protect existing and future beneficial uses of the ground water through the reduction or elimination of the discharge of contaminants to ground water [WAC 173-200-010(4)]. This goal is achieved by [GW Implementation Guidance, Abstract, page x]:

- 1. Requiring that AKART (all known available and reasonable methods of prevention, control and treatment) be applied to any discharge;
- 2. Application of the antidegradation policy of the ground water quality standards. This policy mandates protecting background water quality and preventing degradation of water quality which would harm a beneficial use or violate the ground water standards; and
- 3. Establishing numeric and narrative criteria for the protection of human health and welfare in the ground water quality standards.

Numeric ground water criteria (maximum contaminate concentrations) are based on drinking water quality criteria. Applicable criteria concentrations are listed below:

### Table 2: Ground Water Quality Criteria

Total Dissolved Solids 500 mg/L

pH 6.5 to 8.5 s.u.

Nitrate 10 mg/L

### Wanapum IFZ and Paradise fields

In response to the dry well conditions at upgradient well MW-17 at the LWC Farm site and the results of the hydrogeology report on the Paradise fields (CES, 1999b) that unconfined ground water is not present at the site and no monitoring wells were installed, Ecology requested that Lamb-Weston develop and submit a soil monitoring plan for the Wanapum IFZ and Paradise field sites. The plan would provide data to determine if the operations of the sprayfields are protective of the ground water. A Soils Monitoring Plan was submitted by Lamb-Weston in September 2000 (CES, 2000b).

The plan adds to what is already required in Lamb-Weston's discharge permit. It includes:

- 1. Implement monthly soil moisture monitoring at every field and at one-foot intervals to 60 inches or auger refusal.
- 2. Conduct soil testing in the fall and spring at each field for nitrate, ammonium, soluble salts and soil moisture at one-foot increments to 5ft or until auger refusal.

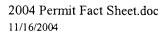
The protection of ground water would be indicated by:

- 1. The annual water balance showing the leaching fraction to be equal to or less than the leaching requirement.
- 2. The trend in soil nitrogen shows that nitrogen is being managed in the root zone
- 3. Nitrogen loading is balanced with nitrogen uptake by the crops.
- 4. The trend in soil soluble salts shows they are being managed within the root zone and not causing an exceedance of crop tolerance limits.

Given the absence of an upgradient well for the LWC Farm fields above the Wanapum IFZ and the absence of unconfined ground water at the Paradise Field site, the Soils Monitoring Plan will be implemented in the permit in place of water quality-based ground water limitations for these sprayfield sites.

### T-Lake WBZ – Background Ground Water Quality

Upgradient ground water quality data at MW-12 (Jan 2000 – December 2003; Addendum 1) was analyzed to determine background conditions for the ground water in the T-Lake WBZ. The procedures for estimating background water quality are contained in the Guidance Document for



Implementing the Ground Water Standards (Ecology, 1996). Background water quality is defined as the 95 percent upper tolerance interval with a 95 percent confidence.

### Nitrate:

An outlier analysis showed that the values for March and November 2002 were outliers; they were removed from the analysis. There was no seasonality in the data. There was a significant trend in the remaining data; n=58, 95% C.I. Starting with the January 1999 value, data values were progressively eliminated until no significant trend was found. The final data set was for the period June 2001 – December 2003 (n=29; Appendix C). A parametric tolerance limit (background) of 15.8 mg/L was determined.

Nitrate values at the downgradient wells (MW-18 and -19) were compared to the background value; Fig. 5. Nitrate values at both wells have been consistently less than the background value. Nitrate values at MW-18 show a steady declining trend since late 2001 while values at MW-19 show an increase in variability. Lamb-Weston's 2001 Farm Operations Summary reported a change in the testing lab beginning in July and August 2001 (CES, 2002). Information presented later by Lamb-Weston revealed that the new lab generally uses Standard Methods where as the previous lab used EPA methods. The test methods are different but both are valid and accepted by Ecology.

### Total Dissolved Solids:

The MW-12 data showed no statistical outliers, no seasonality, and no significant trend (n = 60; Appendix C). A parametric tolerance limit (background) of 419.7 mg/L was determined.

Figure 6 shows a comparison of the background value to TDS values at the downgradient wells; MW-18 and MW-19. With a few exceptions, values at both wells were less than the background value. The data for both wells shows a slight decreasing trend since mid-2001.

### **ENFORCEMENT LIMIT**

To protect existing ground water quality and to prevent ground water pollution, the state's ground water standards provide for the establishment of enforcement limits; WAC 173-200. Enforcement limits are determined on a case-by-case basis and are generally established at levels less than the ground water criteria. These limits represent the maximum allowable concentration of a particular substance which can be detected at a specified point of compliance.

For the T-Lake WBZ ground water beneath the western area of the LWC Farm, enforcement limits would be:

Nitrate = 15.8 mg/LTDS = 420 mg/L

Ecology's ground water guidance defines a violation of an enforcement limit as two consecutive exceedances for the same parameter at the same well. Based on the downgradient data from MW-18 and MW-19 for the T-Lake WBZ beneath the western portion of the LWC Farm fields (Fig. 3), the Lamb-Weston facility would have been in compliance with the nitrate and TDS enforcement limits had these limits been in place during the current permit cycle.

The ground water quality in the downgradient wells relative to the background conditions (Figs. 5 and 6) for the T-Lake WBZ appear to be supported by the water and nitrogen loadings to the fields as reported in the annual farm operations reports. The treatment of the wastewater by the wetlands has resulted in nitrogen load values well below crop requirements. Wastewater hydraulic loads have also been well below crop demands. In addition, nitrate and TDS data from the Farm Drain have been low and less than the ground water criteria; Addendum 1. This drain is from sub-surface laterals beneath fields C4, C5, and C8 (Fig. 3) which are shallow (6-8ft), and therefore would be somewhat representative of water that has percolated beyond the root zone.

Lamb-Weston has implemented an engineered wetland system which has dramatically reduced nitrogen and organic loading to the sprayfields, has added sprayfield acreage that has resulted in reduced nutrient loadings, has provided storage for the winter non-growing season, has continuously monitored flow and nitrogen loading to each sprayfield, and has routinely measured in-situ soil moisture to control irrigation.

Based on the above discussion, it has been decided not to include the enforcement limits for the T-Lake WBZ for this permit cycle. Instead the following will be required in the permit:

- 1. Continued monitoring of the ground water at the LWC Farm site
- 2. The soil monitoring plan submitted by Lamb-Weston in 2000 as requested by Ecology will be made part of the new permit.
- 3. The annual farm operations summary report will be required to contain a continuous 3-year trend analysis of the end-of-cropping year soil profile nitrate concentration for all fields based on the soil testing requirements in the permit.
- 4. The "Best Management Practices/Pollution Prevention Program" section of the permit will require a stable or declining end-of-cropping soil profile nitrate concentration trend over the three years, and the requirement to adjust irrigation plans in low evapotranspiration periods to minimize percolate loses.
  - a. This section will also require that the annual leaching fraction for each field be at or less than the leaching requirement for each field.
- 5. Lamb-Weston will be required to develop and submit a long-range (10 yr) crop plan for the LWC Farm and Paradise fields to estimate the leaching requirement for each site to control soil salinity, and the estimated net nitrogen load capacity for each sprayfield. (NOTE: Please see Response to Comments for changes to this requirement)
  - a. The plan will also include a description of how L-W will leach when it is necessary and how it will protect the ground water.
- 6. The annual "Cropping Schedule for the Upcoming Year" reporting will require the determination of "the annual total net nitrogen load capacity for the sprayfield system based on the expected cropping."
  - a. As part of the "Annual Summary of Farm Operations for the Previous Year", Lamb-Weston will be required to report the actual total annual net nitrogen load and the estimated total annual net nitrogen load capacity.

All of the additional information along with a re-evaluation of the background ground water quality for the T-Lake WBZ will be done for the next permit cycle (2009-2014) to determine if enforcement limits are necessary.

COMPARISON OF LIMITATIONS WITH THE EXISTING PERMIT ISSUED DECEMBER 23, 1998

Table 3: Comparison of Previous and New Limits

Parameter	Existing Limits	Proposed Limits
Average monthly flow	1.8 MGD	1.84 MGD
Gross nitrogen load to the sprayfields	N/A	According to the annual Irrigation and Crop Management Plan

### MONITORING REQUIREMENTS

Monitoring, recording, and reporting are specified to verify that the treatment process is functioning correctly, that ground water criteria are not violated, and that effluent limitations are being achieved (WAC 173-216-110).

### WASTEWATER MONITORING

The monitoring schedule is detailed in the proposed permit under Condition S2. Specified monitoring frequencies take into account the quantity and variability of the discharge, the treatment method, past compliance, significance of pollutants, and cost of monitoring.

### PROCESS WASTEWATER MONITORING

The monitoring of the daily flow to the wetland system will be required to determine compliance with average monthly discharge limit of 1.84 MGD. The current permit monitors flow from the clarifier which is believed to be representative of the discharge to the wetland system.

The list of test parameters and frequency of testing in the current permit will be carried over into the proposed permit.

### IRRIGATION WASTEWATER MONITORING

This monitoring is intended to track the nutrient and water loading to the sprayfields during the year and to use the information to, in part, develop nutrient and water budgets in the annual irrigation and crop plan. The list of parameters and testing frequency in the previous permit will be carried over into the proposed permit.

### GROUND WATER MONITORING

The irrigation of wastewater on the Old Farm fields was stopped in 1996. The water levels in many of the monitoring wells in this area have declined or dried up (MW-10). Except for the average TDS value at MW-1R (510 mg/L), all values for nitrate and TDS at the Old Farm wells (Fig. 3; MW-1R, MW-2, MW-11) are less than the ground water criteria.

It has been decided to remove the ground water monitoring requirements for the Old Farm field wells (MW-1R, MW-2, MW-11) so long as wastewater continues not to be applied to any of these fields.

Ground water sampling will be required at MW-12, -15, -16, -17, -18, and -19. The list of test parameters and sample frequency in the current permit will remain mostly unchanged and extended to the proposed permit: a) "Static water elevation" will replace "static water level"; b) Some cation/anion analysis will be done; there is no information on these parameters for any of the wells.

The permit requirement to monitor the Farm Well will be removed. If this well is used to provide supplemental water to the fields, it is the responsibility of Lamb-Weston to account for the additional nutrient and water loading from this well in the annual report.

In the permit application, Lamb-Weston requested that TKN and ammonia-N be removed from the ground water testing requirements. This request was based on both parameters are poor indicators of the performance of the land treatment system and concentrations of both parameters have been less than or near the lab's test method detection level.

A review of the TKN and ammonia data for the wells (Addendum 1) confirms the consistent low concentrations for all wells. The lower organic concentration of the process wastewater from the wetland treatment, and the low mobility of TKN and ammonia in the soil column lessens the potential for these nitrogen species to leach to the ground water.

It has been decided to grant the request of Lamb-Weston to remove TKN and ammonia-N from the ground water testing requirements.

### MUD PIT MONITORING

Enough information for this waste stream has been gathered. This monitoring will be removed from the proposed permit.

### FARM DRAIN MONITORING

The list of test parameters and sampling frequency will not be changed from the current permit. This information provides an estimate of soil percolate water quality.

### **CROP MONITORING**

The monitoring requirements for the sprayfield crops in the current permit will be extended into the proposed permit. The results of the monitoring will be reported in the annual Irrigation and Crop Management Plan.

The current permit requires composite samples be collected "..from different irrigation fields." Samples shall be comprised of at least ten (10) random samples from each harvest. The Department has determined that this is a reasonable request for crops such as alfalfa, grass, wheat, mint, and related types for the determination of nutrient uptake and developing nutrient balances.

For crops that are less "grain/grass" type (i.e., non-forage crops) and have a large amount of vegetative growth (e.g., corn, potatoes), the use of a single and established literature value for nutrient uptake for the determination of nutrient uptake, and developing nutrient balances is acceptable.

### SOIL MONITORING

Lamb-Weston submitted the following soil monitoring plan in the permit application. It is based on the plan submitted by Lamb-Weston at Ecology's request (CES, 2000b). Some changes have been requested based on their review of the historical soils monitoring data.

- 1. Soil moisture monitoring: Lamb-Weston has installed a soil moisture monitoring system to manage their irrigation to ensure the leaching fraction is at or less than the leaching requirement. Results of this monitoring will continue to be reported in the annual Farm Operations Summary.
- 2. Soil chemistry and fertility monitoring: Table A (Addendum 1) shows the proposed soil monitoring for the system.
  - a. Fall and Spring sampling for nitrate, ammonia, soluble salts, and soil moisture will continue at one foot depths to five feet, or until auger refusal, for the LWC and Paradise fields. Each depth will be a composite comprised of at least six subsamples.
    - The Old Farm fields will be monitored less frequently.
  - b. Cation and anion testing in the Fall will be confined to the top foot. A complete soil profile cation/anion testing will be done once during the permit cycle prior to permit renewal; Fall 2008.
  - c. It is proposed to eliminate CEC (cation exchange capacity) testing. CEC is dependent on soil organic matter and clay content; both change slowly. There is 10 years of CEC data for the one foot and other depths, and an average value can be used.
  - d. It is proposed that TKN testing be limited to only once per permit cycle since ammonia-N is tested at depth twice per year. Ammonia is more readily converted to available nitrogen and can potentially move through the soil column, and the test method for TKN is not sensitive to detect moderate changes in concentrations.
  - e. Soils in the Old Farm fields will be monitored only once per year (Fall) since process wastewater has not been applied for several years and will not for the foreseeable future.

Ecology agrees with the proposed soil monitoring plan submitted by Lamb-Weston (Table A).

### OTHER PERMIT CONDITIONS

### REPORTING AND RECORDKEEPING

The conditions of S3 are based on the authority to specify any appropriate reporting and recordkeeping requirements to prevent and control waste discharges (WAC 173-216-110).

### FACILITY LOADING

The design criteria for this treatment facility are taken from the 1998 engineering report and 2000 O&M manual prepared by The Kirkbride Group and are as follows:

Monthly average flow (max. month):

1.84 MGD

Gross nitrogen load to the sprayfields

According to the annual Irrigation

and Crop Plan

The permit requires the Permittee to maintain adequate capacity to treat the flows and waste loading to the treatment plant (WAC 173-216-110[4]). For significant changes in loadings to the treatment works, the permit requires a new application and an engineering report (WAC 173-216-110[5]).

### IRRIGATION AND CROP MANAGEMENT PLANS

The irrigation and crop management plan is required to support the engineering report and operations and maintenance manual. This plan shall include a consideration of wastewater application at agronomic rates and should describe and evaluate various irrigation controls.

Additions to the annual report to what is in the current permit include:

1. A continuous 3-year trend analysis of the end-of-cropping year soil profile nitrate concentration at the five foot depth for all sprayfields. The trend will start with the 2002 season.

(Note: Please see Response to Comments for changes to these additions)

- 2. The "Cropping Schedule for the Upcoming Year" section of the report will require the determination of the annual total net nitrogen and water load capacity, and FDS loads for the sprayfield system based on the expected cropping.
  - a. This section will also require an estimation of the leaching requirement and a description of how the requirement will be met.

### OPERATIONS AND MAINTENANCE

The proposed permit contains condition S.5. as authorized under Chapter 173-240-150 WAC and Chapter 173-216-110 WAC. It is included to ensure proper operation and regular maintenance of equipment, and to ensure that adequate safeguards are taken so that constructed facilities are used to their optimum potential in terms of pollutant capture and treatment.

Lamb-Weston submitted an updated O&M manual in 2000.

### SOLID WASTE PLAN

Standard permit language will be used that prevents the disposal of any solid waste into surface waters and all solid waste shall be disposed of in accordance with any permit required by the local jurisdictional health department.

### SPILL PLAN

Lamb-Weston submitted an updated spill plan in 2003. Standard permit language will be used that requests periodic review of the plan and updates as needed.

### GENERAL CONDITIONS

General Conditions are based directly on state laws and regulations and have been standardized for all industrial waste discharge to ground water permits issued by the Department.

Condition G1 requires responsible officials or their designated representatives to sign submittals to the Department. Condition G2 requires the Permittee to allow the Department to access the treatment system, production facility, and records related to the permit. Condition G3 specifies conditions for modifying, suspending or terminating the permit. Condition G4 requires the Permittee to apply to the Department prior to increasing or varying the discharge from the levels stated in the permit application. Condition G5 requires the Permittee to construct, modify, and operate the permitted facility in accordance with approved engineering documents. Condition G6 prohibits the Permittee from using the permit as a basis for violating any laws, statutes or regulations. Conditions G7 and G8 relate to permit renewal and transfer. Condition G9 requires the payment of permit fees. Condition G10 describes the penalties for violating permit conditions.

### RECOMMENDATION FOR PERMIT ISSUANCE

This proposed permit meets all statutory requirements for authorizing a wastewater discharge, including those limitations and conditions believed necessary to control toxics, and to protect human health and the beneficial uses of waters of the State of Washington. The Department proposes that the permit be issued for five years.

### REFERENCES FOR TEXT AND APPENDICES

CES, 1999a. Engineering Report Addendum for Additional Land Application Fields, Lamb-Weston, Connell, Washington. May

CES, 1999b. Hydrogeologic Report, Lamb-Weston, Connell, Washington. November

CES, 2000a. 1999 Annual Summary of Operations, 2000 Irrigation and Crop Plan, April

CES, 2000b. Lamb-Weston Connell Soils Monitoring Plan. September

CES, 2001. 2000 Farm System Operations Summary, April

CES, 2002. 2001 Farm System Operations Summary, April.

CES, 2003. 2002 Farm System Operations Summary. April

CES, 2004. 2003 Farm System Operations Summary. March

The Kirkbride Group, Inc. 1998. <u>Lamb-Weston, Inc. Connell, Washington, Process Water Treatment System, Engineering Report – Addendum, Phase II System Improvements</u>. August

The Kirkbride Group, 2000. <u>Process Water Treatment System Operations and Maintenance Manual</u>. May

Washington State Department of Ecology, 1993. <u>Guidelines for Preparation of Engineering</u>
Reports for Industrial Wastewater Land Application Systems, Ecology Publication # 93-36. 20 pp.

Washington State Department of Ecology.

Laws and Regulations (<a href="http://www.ecy.wa.gov/laws-rules/index.html">http://www.ecy.wa.gov/laws-rules/index.html</a> )

Permit and Wastewater Related Information (http://www.ecy.wa.gov/programs/wq/wastewater/index.html

Washington State Department of Ecology, 1996. <u>Implementation Guidance for the Ground Water Quality Standards</u>, Ecology Publication # 96-02.

### APPENDICES

### APPENDIX A--PUBLIC INVOLVEMENT INFORMATION

The Department has tentatively determined to reissue a permit to the applicant listed on page 1 of this fact sheet. The permit contains conditions and effluent limitations which are described in the rest of this fact sheet.

Public notice of application was published on June 26, 2003 in the Tri-City Herald to inform the public that an application had been submitted and to invite comment on the reissuance of this permit.

The Department will publish a Public Notice of Draft (PNOD) on (date) in the Tri-City Herald to inform the public that a draft permit and fact sheet are available for review. Interested persons are invited to submit written comments regarding the draft permit. The draft permit, fact sheet, and related documents are available for inspection and copying between the hours of 8:00 a.m. and 5:00 p.m. weekdays, by appointment, at the regional office listed below. Written comments should be mailed to:

> Water Quality Permit Coordinator Department of Ecology 4601 North Monroe Street Spokane, WA 99205-1295

Any interested party may comment on the draft permit or request a public hearing on this draft permit within the thirty (30) day comment period to the address above. The request for a hearing shall indicate the interest of the party and reasons why the hearing is warranted. The Department will hold a hearing if it determines there is a significant public interest in the draft permit (WAC 173-216-100). Public notice regarding any hearing will be circulated at least thirty (30) days in advance of the hearing. People expressing an interest in this permit will be mailed an individual notice of hearing.

Comments should reference specific text followed by proposed modification or concern when possible. Comments may address technical issues, accuracy and completeness of information, the scope of the facility's proposed coverage, adequacy of environmental protection, permit conditions, or any other concern that would result from issuance of this permit.

The Department will consider all comments received within thirty (30) days from the date of public notice of draft indicated above, in formulating a final determination to issue, revise, or deny the permit. The Department's response to all significant comments is available upon request and will be mailed directly to people expressing an interest in this permit.

Further information may be obtained from the Department by telephone, 509-329-3524, or by writing to the address listed above.

Page 22

The Fact Sheet and permit were written by Don Nichols

### APPENDIX B--GLOSSARY

Average Monthly Discharge Limitation--The average of the measured values obtained over a calendar month's time.

Best Management Practices (BMPs)--Schedules of activities, prohibitions of practices, maintenance procedures, and other physical, structural and/or managerial practices to prevent or reduce the pollution of waters of the State. BMPs include treatment systems, operating procedures, and practices to control: plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. BMPs may be further categorized as operational, source control, erosion and sediment control, and treatment BMPs.

BOD<sub>5</sub>--Determining the Biochemical Oxygen Demand of an effluent is an indirect way of measuring the quantity of organic material present in an effluent that is utilized by bacteria. The BOD<sub>5</sub> is used in modeling to measure the reduction of dissolved oxygen in a receiving water after effluent is discharged. Stress caused by reduced dissolved oxygen levels makes organisms less competitive and less able to sustain their species in the aquatic environment. Although BOD is not a specific compound, it is defined as a conventional pollutant under the federal Clean Water Act.

**Bypass**--The intentional diversion of waste streams from any portion of the collection or treatment facility.

Composite Sample--A mixture of grab samples collected at the same sampling point at different times, formed either by continuous sampling or by mixing discrete samples. May be "time-composite" (collected at constant time intervals) or "flow-proportional" (collected either as a constant sample volume at time intervals proportional to stream flow, or collected by increasing the volume of each aliquot as the flow increased while maintaining a constant time interval between the aliquots.

Continuous Monitoring -Uninterrupted, unless otherwise noted in the permit.

**Distribution Uniformity**—The uniformity of infiltration (or application in the case of sprinkle or trickle irrigation) throughout the field expressed as a percent relating to the average depth infiltrated in the lowest one-quarter of the area to the average depth of water infiltrated.

**Engineering Report**--A document, signed by a professional licensed engineer, which thoroughly examines the engineering and administrative aspects of a particular domestic or industrial wastewater facility. The report shall contain the appropriate information required in WAC 173-240-060 or 173-240-130.

**Grab Sample**--A single sample or measurement taken at a specific time or over as short period of time as is feasible.

**Industrial Wastewater**--Water or liquid-carried waste from industrial or commercial processes, as distinct from domestic wastewater. These wastes may result from any process or activity of industry, manufacture, trade or business, from the development of any natural resource, or from animal operations such as feed lots, poultry houses, or dairies. The term includes contaminated storm water and, also, leachate from solid waste facilities.



pH--The pH of a liquid measures its acidity or alkalinity. A pH of 7 is defined as neutral, and large variations above or below this value are considered harmful to most aquatic life.

Soil Scientist—An individual who is registered as a Certified or Registered Professional Soil Scientist or as a Certified Professional Soil Specialist by the American Registry of Certified Professionals in Agronomy, Crops, and Soils or by the National Society of Consulting Scientists or who has the credentials for membership. Minimum requirements for eligibility are: possession of a baccalaureate, masters, or doctorate degree from a U.S. or Canadian institution with a minimum of 30 semester hours or 45 quarter hours professional core courses in agronomy, crops or soils, and have 5,3,or 1 years, respectively, of professional experience working in the area of agronomy, crops, or soils.

State Waters--Lakes, rivers, ponds, streams, inland waters, underground waters, salt waters, and all other surface waters and watercourses within the jurisdiction of the state of Washington.

**Technology-based Effluent Limit**--A permit limit that is based on the ability of a treatment method to reduce the pollutant.

**Total Dissolved Solids**--That portion of total solids in water or wastewater that passes through a specific filter.

Water Quality-based Effluent Limit--A limit on the concentration of an effluent parameter that is intended to prevent pollution of the receiving water.

### APPENDIX C--TECHNICAL CALCULATIONS

The following technical information is attached:

- 1. Outlier analysis, seasonality, Sen's slope estimator, and parametric intra-well tolerance limit for nitrate at MW-12
  - a. Outliers included the values for March and November 2002, which were removed
  - b. There was a significant increasing trend in the data (n=58; 95% C.I.). No significant trend was found for the data period June 2001 December 2003; n = 29.
- 2. Outlier analysis, seasonality, Sen's slope estimator, and parametric intra-well tolerance limit for TDS at MW-12
  - a. There were no outliers; the data was neither normally or log-normally distributed

### APPENDIX D--RESPONSE TO COMMENTS

Comments were received from Lamb-Weston on the draft permit during the public comment period. Those comments and Ecology's responses are attached.

Also received, in a letter dated November 15, 2004, was a request to change the name of the facility from Lamb-Weston, Inc., to ConAgra Foods Packaged Foods Company, Inc. This became effective on September 26, 2004. There are no personnel changes and the facility will continue to do business under Lamb-Weston.

Therefore, the face page of the permit will be changed to read:

ConAgra Foods Packaged Foods Company, Inc. d/b/a Lamb-Weston 811 Gum Street Connell, WA 99326

The cover page and the General Information section of the Fact Sheet will also be changed.

# COMMENTS TO SWDP 5328, Lamb-Weston Connell

## RESPONSES



Using natural systems to take the waste out of water

Phone: 509-921-0290 Fax: 509-921-1788 12720 E Nora, Suite A Spokane, WA 99216

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October 18, 2004

Mr. Don Nichols Washington Dept. of Ecology 4601 N. Monroe Spokane, WA 99205-1295

SUBJECT: Comments on Draft State Waste Discharge Permit No. ST 5328

Dear Don,

Cascade Earth Sciences is pleased to submit the attached comments on behalf of Lamb-Weston, Connell (LWC) following review of the Draft State Waste Discharge Permit No. ST 5328. There are several errors that need to be corrected in the fact sheet. It also appears that Special Condition S.9. creates duplication in the reporting requirements. The comments are listed below.

### FACT SHEET

Page 9, Under LWC Farm, 2nd paragraph

1) January 1999 should be changed to January 2000 since the first data points to compare ground water elevation at MW12 and determine ground water flow came from MW18 and 19 in Jan 2000.

2) MW-17 should be MW-18. MW-17 is dry.

3) The groundwater elevations shown in the recent fact sheet do not match the values we submitted in our August Factual Comments letter. It may be that Ecology used a different date range to calculate mean elevation, but we should make sure that LWC and Ecology are working from the same data. In reviewing the data, it appears that there may be a difference in date ranges between Ecology and LWC. The elevation values computed by LWC are based on the range of January 2000 through June 2004. The Fact Sheet cites 1999 as the starting point for the data range but the end point is not stated and MW-18 and MW-19 weren't installed until January 2000. Please review the source of Ecology's groundwater elevations to make sure they derived from an accurate and consistent range of dates.

		1 WC Comments
Monitoring Well	Draft Fact Sheet	LWCComments
MW-12	962.39	962.74
MW-18	954.76	953.99
MW-19	954.08	954.19
1AT 14 - 17	The same of the sa	

### Fact Sheet

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Response #1: Noted and changed in the Fact Sheet narrative

Response #2: Noted and changed in the Fact Sheet narrative

Response #3: The Fact Sheet narrative has been edited to show that the average well elevations are for the period January 2000 through December 2003.

# COMMENTS TO SWDP 5328, Lamb-Weston Connell

Comments on Draft State Waste Discharge Permit No. ST 5328 October 18, 2004 Page 2

Page 13, Wanapum IFZ and Paradise Fields, 2nd paragraph, Item #1

auger refusal. The revised added wording "...inches or auger refusal" is needed. deleted the word "inches" following the number 60. In addition, we can only monitor soil moisture to In deleting the verbiage as requested in our August Factual Comment letter, Ecology inadvertently

Page 19 of 22, S9 Compliance Schedule

(LWC and Paradise). However, each year Lamb-Weston provides a cropping plan containing and provides less representative data than already requested by Ecology and provided by Lamband nutrient balances than a 10-year plan could provide. Therefore, Special Condition S.9. should be removed from the permit because it is a duplication of the effort required in Special Condition S.8. year and the following year's cropping plan provides a more representative view of the site capacities is reported as required under Special Condition S.8 in the Annual Summary of Farm Operations each Management Plan as required under Special Condition S.8. Actual previous year system performance projected water balances and nutrient balances and site capacities in the Irrigation and Crop The requested 10-yr crop plan requires water balances and nitrogen load capacities for both farms

concerns regarding the LWC's comments, please feel free to call me at 509-921-0290 or Mike DeWulf at Lamb-Weston Connell at 509-234-5511. Thank you for your consideration of the comments described above. If you have any questions or

CASCADE EARTH SCIENCES

Senior Soil Scientist Steve Venner

Mike Henderson - Lamb-Weston, Corporate Mike DeWulf - Lamb-Weston, Connell Larry Smith - Lamb-Weston, Connell Dave Larson - Lamb-Weston, Connell Project File 2321024

Doc:

Draft Permit Comments 10-18-04.doc

6SLV/sjr

RESPONSES

Comment: Add wording, "..inches or auger refusal."

was inadvertently deleted Response: Noted; the Fact Sheet will be edited to show the language that

PERMIT

what is already required in Section S8 Comment: Remove Special Condition S9 because it is duplicative of

over a 10-year period. fields, than trying to estimate these values for a speculated crop sequence better estimation of the nitrogen, water and FDS load capacities, and the requirements. The information presented by Section S8.B will give a was requested in 10-year plan in Section S9, there is some duplication in Response: After reviewing what is required in Section S8.B and what leaching requirement for the proposed crops at the LWC and Paradise

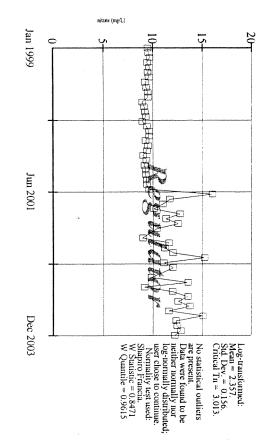
of actual nitrogen loads and leaching to estimated values shall be retained. The following language will be added to Section S8.A: year plan. However, the portion of Section S9 that required a comparison Ecology agrees with the comment to eliminate Section S9 and the 10-

Comparison of actual vs. estimated. The total net nitrogen, water, sites shall be compared to the estimated values presented in the and FDS loads and leaching fractions for the LWC and Paradise previous years Irrigation and Crop Plan.

### NITRATE

v.8.5.09. For regulatory purposes only. CAS#1/a EPA ma.0.05

### **OUTLIER ANALYSIS** MW-12



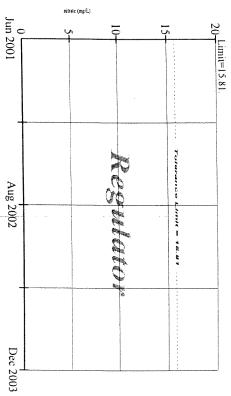
Client: Regulatory Use Facility: Landfill X

Constituent: nitrate (mg/L) Date: 9/10/04, 11:55 AM

Data File: T-Lake View: T-Lake

v.8.5.09. For regulatory purposes only. CAS# n/a EPA ma. 0.05

# PARAMETRIC INTRA-WELL TOLERANCE LIMIT MW-12



95% coverage. Background Data Summary: Mean=12, Std.;Dev=1,707, 0% nds, 29 obs. Normality test used: Shapiro Wilk. W S for background data = 0.9676, W Quantile = 0.926. Testwise alpha = 0.05.

v.8.5.09. For regulatory purposes only. CAS#10's EPA m.s. 0.05

# SEASONALITY: MW-12

For the data shown, the Kruskal-Wallis test indicates NO SEASONALITY at the 5% significance level. Because the calculated Kruskal-statistic is less than or equal to the Chi-squared value, we conclude that no season has a significantly different median concentration of this constituent than any other season.

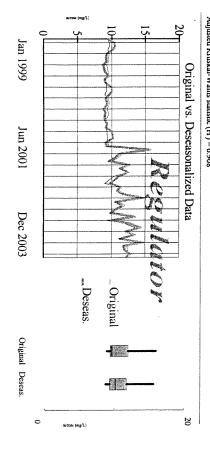
Calculated Kruskal-Wallis statistic = 6.908

Tabulated Chi-Squared value = 7.815 with 3 degrees of freedom at the 5% significance level.

There were 7 groups of ties in the data, consequently the Kruskal-Wallis statistic (H) was adjusted. The adjusted statistic (H) was utilized to determine if the medians were equal.

Kruskal-Wallis statistic (H = 5.906

Adjusted Kruskal-Wallis statistic (H) = 6.908



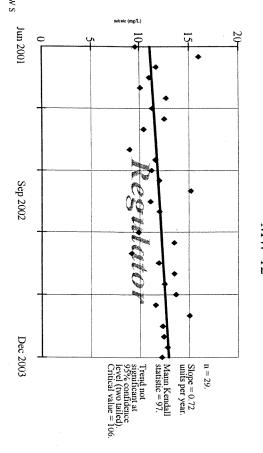
Date: 9/10/04, 11:55 AM Constituent: nitrate (mg/L)

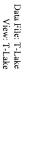
Client: Regulatory Use Facility: Landfill X

Data File: T-Lake View: T-Lake

v.8.5.09. For regulatory purposes only. CAS# n/a EPA m.a. 0.05

# SEN'S SLOPE ESTIMATOR MW-12





Constituent: nitrate (mg/L) Date: 9/10/04, 11:56 AM

Facility: Landfill X
Client: Regulatory Use

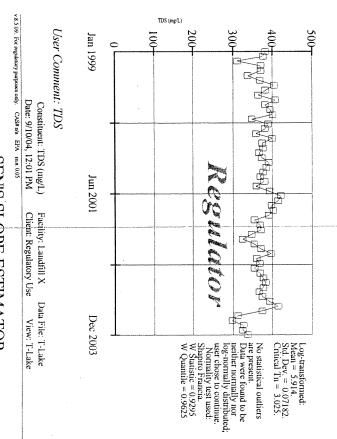
Constituent: nitrate (mg/L)
Date: 9/10/04, 11:57 AM

Facility: Landfill X Client: Regulatory Use Data File: T-Lake View: T-Lake



v.8.5.09. For regulatory purposes only. CAS# wa EPA ma. 0.05

## **OUTLIER ANALYSIS** MW-12



### SEN'S SLOPE ESTIMATOR NOR ALGION MW-12 Mann Kendall normal approx. -1.819. Slope = -4.008 units per year.

n = 60.

400

500

TDS (mg/L)

200

00

User Comment: TDS

Jan 1999

Jun 2001

Dec 2003

Constituent: TDS (mg/L)
Date: 9/10/04, 12:04 PM

Facility: Landfill X

Client: Regulatory Use Data File: T-Lake View: T-Lake

v 8.5.09. For regulatory purposes only. CAS# n/a EPA m.e. 0.05

# SEASONALITY: MW-12

For the data shown, the Kruskal-Wallis test indicates NO SEASONALITY at the 5% significance level. Because the calculated Kruskal-statistic is statistic is statistic is statistic is statistic in the second to the Chi-squared value, we conclude that no season has a significantly different median concentration of this constituent than any other season.

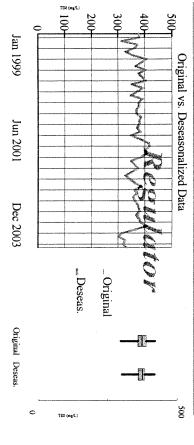
Calculated Kruskal-Wallis statistic = 2.212.

Tabulated Chi-Squared value = 7.815 with 3 degrees of freedom at the 5% significance level.

There were 15 groups of ties in the data, consequently the Kruskal-Wallis statistic (H) was adjusted. The adjusted statistic (H) was utilized to determine if the medians were equal.

Kruskal-Wallis gratistic (H) = 2.210

Adjusted Kruskal-Wallis statistic (H) = 2.212



User Comment: TDS

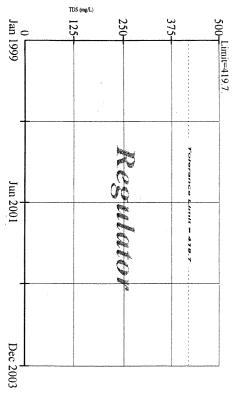
Date: 9/10/04, 12:01 PM Constituent: TDS (mg/L)

Client: Regulatory Use Facility: Landfill X

Data File: T-Lake View: T-Lake

v.8.5.09. For regulatory purposes only. CAS#n/a EPA m.a. 0.05

# PARAMETRIC INTRA-WELL TOLERANCE LIMIT MW-12



Trend not sig-mificant at 95% confidence level (two tailed). Critical value = -1.96.

95% coverage. Background Data Summary: (based on square(x) transformed data) Mean=138371, Std. Dev=18724, 0% nds, 60 of Normality test used: Shapiro-Francia. W Statistic for background data = 0.9656, W Quantile = 0.9625. Testwise alpha = 0.05.

User Comment: TDS

Constituent: TDS (mg/L)
Date: 9/10/04, 12:04 PM

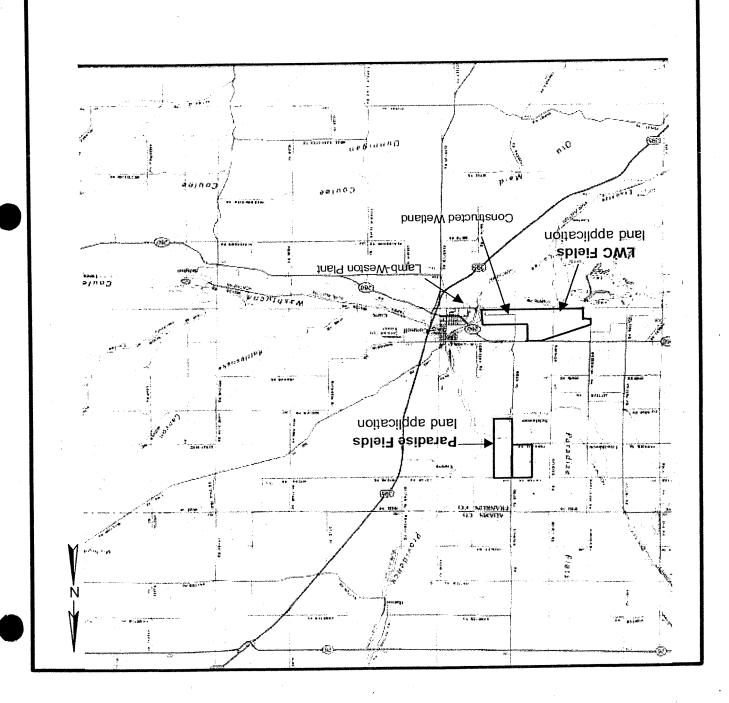
Facility: Landfill X Client: Regulatory Use

Data File: T-Lake View: T-Lake

Vbbendix D--kesbonse lo commenls

EVCL SHEEL FOR STATE WASTE DISCHARGE PERMIT ST-5328

.



### Figure 1. Site Location

(NOT TO SCALE)

(LOCATIONS ARE APPROXIMATE)

(SOURCE: Washington Atlas and Gazetteer, DeLorme Mapping Co., Freeport, ME, 1992)

H 25.52.8 HZ.6 KETIMO CELL DESIGNATION NORTH 71 TIES 181 1 ST/H 25 1 - 200' i ه. \$5 BOD RAMME

BY MALL WARE

FY MA 3,11 #2.6 NEW WETLAND THEATMENT CELLS ΑNO \$ -30 PASA P. LINES AND GETS

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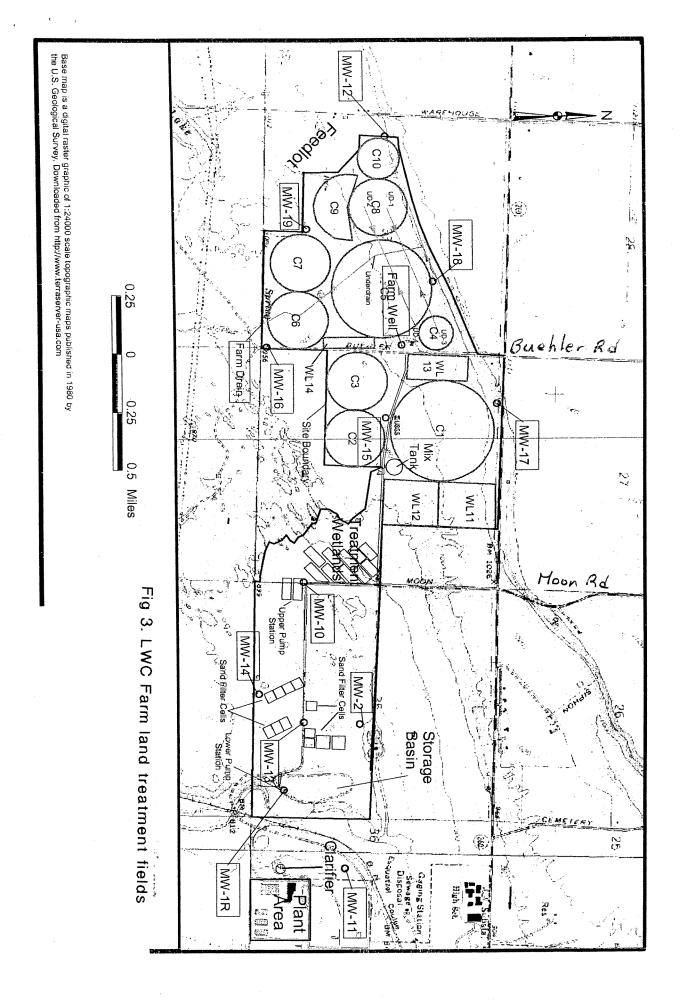
LEAT HAM MCDAL

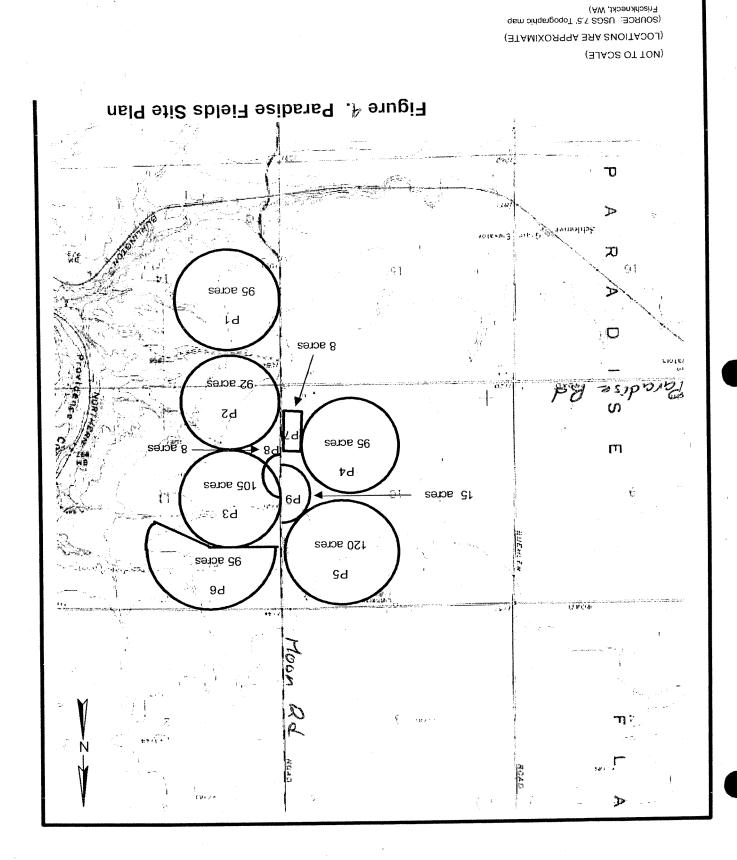
LEAT MCDA 15. 12 0 SAYO BORROW AREA SHEET EAST ₩3.8 WEM WELLYND CONSULTING ENGINEERS
AA MOREIS P.E MY 14.35.C+ 595 (309) 944-7771 W3.10 W4. 1 W4.2 BID PACKAGE 6524-2C:

AT UPPER PUMP HOUSE MECHANICAL

SE SEECTION UPPER HOUSE
EZ ONE LINE DAGRAMS
ES ONE LINE DAGRAMS
ES REMOTE VALVE CONTROL BIO PAC'AGE 5524—2A and 2B:
L-1 CONER SHEET
L-2 LYOUT/GRADING, BEST
L-3 LYOUT/GRADING, EAST
L-4 DRAINS/FORCE MAINS, BEST
L-5 GRANIS MINS, EAST
L-6 GONSTRUCTION DETAILS
L-9 CONSTRUCTION DETAILS L-10 UPPER PUMP HOUSE STRUCTURAL BID PACKAGE 6524-2D: 便 STORAGE S524-2A and 2B: OCD LYCOON COLLECTION BASIN -OLD PUMP STATION HOUSE PUMP 177.44 LAMB-WESTON, INC. COVER SHEET PROCESS WATER LAND TREATMENT AND SYSTEM IMPROVE MENTS - PHASE 2 - WETLAND PRETREATMENT

Fig 2. Constructed wetlands





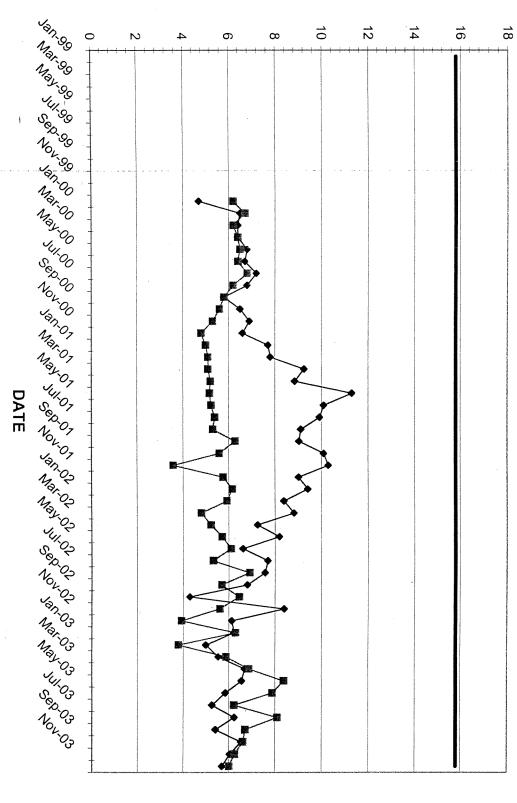
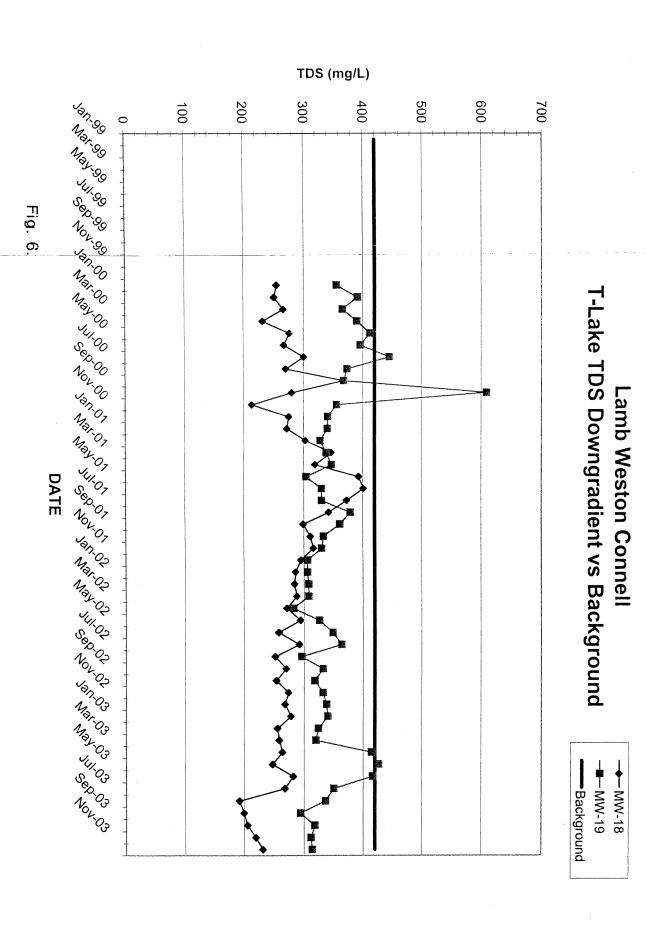


Fig. 5.

Lamb Weston Connell
T-Lake Nitrate Downgradient vs Background







1 . . .

Wanapum Interflow Zone Lamb Weston New Farm

9.85	<b>.</b>								
	59.241	10.8	5.54	897	855	15.8	9 21.0	F 27.0	Dec-03
<b>t</b> '79	<b>\$5.24</b>	<b>7</b> 6'L	5.74	<b>7</b> 97	999	67.6	H 21.0	91'1	E0-voV
757	L'S†1	67.8	05	724	<b>76</b> \$	٤٢.6	В	9 27.0	£0-15O
£.23	95.241	45.8	66'07	720	978	<b>t</b> 9.8	24.0	87.1	Sep-03
L'99	L9'S†1	82.8	\$.04	749	915	76'8	8	F 27.0	€0-guA
6'99	LL'S#1	<b>†</b> \$'L	tt t	308	Lts	60.8	<b>†1</b> '0	1	£0-lut
L'65	\$6.241	£6.7	S:0t	340	545	7.6	91.0	J 27.0	£0-unf
L.TZ	L0.841	16.7	5.24	780	975	28.8	8	9 27.0	E0-yaM
1.88	\$5.241	16.7	S†	330	755	1.01	В	3 ST.0	£0-1qA
8.82	11'971	86.7	90	370	119	£7.6	8	<b>†</b> 0'1	E0-16M
8.83	146.05	7.8	5.52	916	065	91.6	8	6.0	Feb-03
2.22	7'9†1	89.7	S†	346	919	7.11	82.0	96.0	£0-ngl
1.82	6'771	<b>≯</b> 6′ <i>L</i>	<b>†</b> S	340	519	<b>t</b> .01	8	3 ST.0	Z0-əəQ
9.88	146.35	9 <i>L`L</i>	£\$ .	385	159	7'71	8	3 27.0	20-voN
<b>t</b> .09	t <sup>.</sup> 9†1	8.25	tt	067	995	t/.T	В	\$8.0	
1.68	t <sup>*</sup> 9†1	79°L	Ot	373	515	L'6	권 21.0	F 27.0	Z0-dəS
6.29	9'9†1	₹9°L	L.T.E	087	۷۵۶	66'6	F 48.0	권 6.1	20-guA
9.29	L'9†1	£\$.7	38.5	371	905	2.01	H 48.0	7	20-lul
9.09	6'9†1	€7.7	88	. 078	909	6'6	9.84 F	권 61	50-nul
2.85	5.841	9 <i>L</i> .7	2.7.5	<b>LIE</b>	881	2.21	F 48.0	3 6.1	20-yeM
t.22	7L'9†1	T8.T	L'9E	<b>\$74</b>	SLt	<b>†</b> '8	F +8.0	g 6.1	Z0-1qA
1.88	51.741	9.8	L'SE	57.5	99†	8.01	9.84 F	F 6.1	20-1eM
5.95	6.741	₹£.8	7.6£	313	L9†	L8'6	F 48.0	3 6.1	Feb-02
L.T.	t'Lt1	17.8	₹.9٤	667	877	5.11	9 t8.0	년 6'1	20-nel
2.22	LL'9†1	t1'8	L.3£	£17	85†	5.11	H 48.0	F 6.1	10-29G
L.T.	86'911	91.8	2.7.5	306	LL <b>†</b>	9.01	∃ <b>≯</b> 8.0	H 6.1	10-voN
1'85	92'9#1	56.T	9£	302	95†	SL'6	8	H 6.1	10-12O
5,59	£8′9†1	6	7.9£	876	79+	89.6	T \$8.0	q 6.1	10-dəS
L' <b>†</b> 9	78'91	£'8	7.9£	35¢	LEÞ	86.8	8	표 6.1	10-SuA
9.59	17.341	84.8	\$L'SE	SEE	19‡	98.8	T \$8.0	g 6,1	10-lut
€.7∂	98'9†1	8£.8	8.55	303	18†	67'8	F 1.0	1.0	10-nul
7.99	58'9†1	<b>1</b> 7.8	9.9£	373	7.17	69.8	F 1.0	1.0	10-yeM
€.09	146.85	2.8	1'98	867	6£‡	27.8	ਜ਼ 1.0	2.0	10-1gA
5.29	146.53	\$9.8	9.25	667	95†	8£.8	9 I.O	9.0	10-1£M
1.82	8'911	54.8	6.2.5	343	81†	8.43	2.0	70	Feb-01
2.85	146.29	1.8	£,∂£	617	90t	<b>\$5.8</b>	¶ I.0	2.0	10-nel
7.52	146	SL.T	2.7.5	567	£ <b>†</b> †	£7.8	F 1.0	€.0	Dec-00
7.85	11'911	₹.8	6.25	587	587	67.8	ਜ਼ 1.0	£.0	00-40N
5.29	56.241	8.32	1.78	583	ltt	€9.8	<b>4</b> 1.0	7.0	00-qs2 00-15O
8.29	8.241	L9 L	6.9٤	318	<b>†9</b> †	££.8	F 1.0	2.0	00-guA
L'99	16'511	7£.8	Lt	167	£\$†	77.8	F 1.0	1.0	00-lut
۲٬٤9	142.82	\$1.8	9.7.5	308	<b>†£</b> †	<b>†</b> 7.8	4 1.0	7.0	00-nul
2.59	86'511	L6.T	1.95	667	392	66.8	4 1.0	2.0	00-yeM
9'19	14.241	\$2.8	6.25	867	668	8.52	4 1.0	7.0	
<b>\$.£</b> 9	8.241	€.8	8.95	312	685	1.8	H 1.0	7.0	Apr-00
27.82	8,241	\$4.8	1'9£	283		£2.8	4 1.0	7.0	Feb-00 Mar-00
65	\$1.241	8.25	8.2.5	767	392	9.8	4 1.0	\$.0 2.0	100-ngt
95	<i>\$1.</i> 9\$1	25.8	€.74	334	6/2	8.54	H 1.0	7.0	96-29G
çç	<u> </u>	<b>7.8</b>	£.3£	370	60†	17.8	F 1.0	2.0	66-A0N
85	SL'9†1	€.8	6.8£	908	££\$	7.8	\$ a.r.s.r. <del>s.s.s.</del> \$.s.r.r.s.		66-33O
19	1.741	<b>č.</b> 8	8.9£	375	71†	87.8	4 1.0	4 1.0	66-dəS
<b>č.</b> 29	9.941	€.8	<b>†9</b> £	737	£0†	ST.8	H 1.0	€.0	66-guA
2.59	7'911	7.8	8.25	89£	857	64.8	H 1.0	7 7.0	
89	9†1	1.7	36.2	\$27	297	16.8	H 1.0	1 2.0	66-unf
99	1777	8.8	35.3	LLT	777	72.8	A	2.0	99-ysM
6'19	91'771	6.8	4.95	887	L++	†9°8	4 I.0		99-19A
79	144.35	2.8	8.7.5	350	L7\$	L'8	H 1.0	1.0	99-36M
8.09	27.541	6.7	6.7.5	167	99†	L6.8	H 1.0		
<b>†</b> '09	7.441	L'L	36.2	376	0††	14.8	4 1.0	7.0	96-ngl
8.09	143.3	<b>₽</b> 6.7	6.98	SL7	677	£8.8	H 1.0	7.0	
yr ór	V JQ 199	n.s	JQ J/gm	7Ò 7/#w	пшуог\сш бГ	JQ J\gm	7) 7/8m	י סר	DATE mg/l
						· /	()	(17.50) :==	· ·
TTATET T	DEPTH	Hq	CHLORIDE	LDS	COMDUC	(N 25) EON	(N 26) EHN	(N (92 N)	L
TEMP	113.03.0				SIMM	SIMW	SIMM	SIN	

L = Empty

F = Less than

B = Below/Non detect

6 = conditional/not required

7 = Empty

## Wanapum Interflow Zone Lamb Weston New Farm

			\$8	985		8.71					ĐΛY
L'65	6'451	L6'L	7.2	868	986	111	E	21.0	Е	27.0	Dec-03
£.08	LL'\$\$1	20.7	7.7	777	086	611	E	21.0		5.1	£0-voV
18.78	SSI	98.7	5.2 <i>T</i>	†††	€06	71	В		F	27.0	£0-35O
\$.28	6.421	L6'L	12.25	455	9£6	LL.11	11	82.0		85.1	£0-dəS
8.03	51.221	6L.T	<b>†</b> L	7/1	676	54.41	В			٤.1	€0-guA
8.09	2.221	S.T	<b>†</b> /	204	9£6	9'#1	В		-	£6'0	E0-lul
8.09	\$6.221	99.7	SL	805	£6	7.41	В			<i>L</i> 1	£0-unf
6\$	125.45	87.7	S.2T	085	LE6	6'71	8			75.1	E0-yeM
4.62	155.42	11.7	₹.97	095	<b>L£6</b>	18.21	В			6'1	£0-1qA
9.85	12,221	<b>#1</b> '8	LL	005	686	16'11	8		1	1.32	Mar-03
6.72	1.221	98' <i>L</i>	s.sr	919	676	13.4	В	***************************************		96'0	Feb-03
4.72	9.481	28.T	SL	965	L76	£'#1	В	***************************************	1	92.0	£0-nel
£.18	9'†51	6£.7	S:9L	888	686	<b>†</b> †11	8	***************************************		<i>\$L</i> '0	Dec-02
8.82	9.421	22. <i>T</i>	95	985	9£6	£.11	В		F	27.0	70-40N
4.72	59.451	\$9.7	94	90\$	746	1.41	8	**********************	Н	27.0	Z0-32O
65	8.421	8£,7	٤L	<b>†£9</b>	<b>L\$6</b>	Εl	8	***************************************	Н	6.1	zo-dəS
L'65	57.481	71.7	2.67	L75	196	2.81	F	\$8.0	Э	6'1	70-8n¥
7.09	L'\$\$1	<b>₽</b> €'L	L'LL	SLS	846	ε.71	H.	<b>†8</b> '0	Н	6'1	Z0-Inf
7.62	9.481	99.7	92	L£9	£96	171	3	\$8.0	E	6.1	20-unf
1.82	6.421	87.7	L'9L	LLS	198	1.71	E	<b>\$8.0</b>	H H	6.1	20-yeM
9.72	L9'tS1	71.7	7.77	095	9\$6	14.3	F	\$8.0	1	7.36	Apr-02
8.95	9'†\$1	€8.7	2.87	145	£16	<u> </u>	Е	\$8.0	F	6.1	Mar-02
8.95	15.421	6.7	7.67	290	916	9.71	F	<b>\$8.0</b>	7	6'1	Feb-02
9.72	28.521	69.7	7.28	553	\$06	4.02	F	<b>†8</b> '0	H.	61	20-nsl
2.72	98.551	<b>₽9.</b> 7	2.58	895	676	5.12	E	<b>†</b> 8'0		87.2	10-29G
L.TZ	27.521	£L'L	L.48	749	656	€.61	Е	<b>\$8.0</b>		2.16	10-AON
2.72	Z9'ES1	78.T	<b>†</b> *8	<b>†</b> 59	776	7.02	В	******************	В		10-12O
1.65	88.621	2.8	7.18	079	<b>**</b> **********************************	1.22	E	<b>\$</b> 8.0	E	6′1	10-dəS
6.29	124.55	9'8	7.48	£19	1£6	9.12	8	****************	4	6.1	10-8nV
79	152'04	80.8	∠ <b>≯</b> .28	169	<i>L</i> †6	7.02	В	<b>\$8.0</b>	3	61	10-lnf
€.08	155,26	\$0.8	7.06	797	696	81	E	1.0	1	1.1	10-nul
1.18	155.23	\$9.7	£.38	985	668	5.71	4	1.0	1	€.0	10-yeM
<b>7</b> '65	60.221	£6.7	1.68	165	716	1.81	1 1	1.0	1	1.2	Apr-01
6.62	L8.481	20.8	£.88	879	\$\$6	8.81	E	1.0	1	4.0	Mar-01
L'65	55.421	6.7	6.88	909	<i>\$</i> 7.8	2.91	1	2.0	1	ε.0	Feb-01
1.92	5.421	28.7	7.59	619	788	1.02	E	1.0	1	<b>p</b> .0	10-nst
2.88	124.26	8.7	7.68	<i>LL</i> 9	006	6.81	Ē	1.0	1	ε.0	Dec-00
7.65	86.521	2.8	86	159	<b>786</b>	4.02	131	1.0	1	ε.0	00-voN
7.65	£5.£21	6.7	06	£19	896	<b>\$.02</b>	E	1.0	†	7.0	00-12O
09	60'\$\$1	ĽL	L'16	\$99	0/6	2,61	1 1	1.0	1	7.0	00-dəS
<b>p</b> .09	15,421	7.8	16	£19	<i>LL</i> 8	<b>\$.81</b>	1 H	1.0	1	ε.0	00-8nV
1.18	L'\$SI	£6.7	<b>†</b> 6	1/9	596	£.71	I I	1.0	11	2.0	00-lut
9.09	95'751	8.7	£.26	685	££7	<b>t</b> '61	Ī	1.0	11	ε.0	00-unf
1.18	124,32	28.7	<b>p</b> .16	9£9	064	18.1	i i	1.0	1	£.0	00-YEM
<b>\$</b> .09	7.451	6.7	8.26	LLT	<b>†98</b>	€.61	F	1.0	1	<b>p</b> '0	00-1qA
1.62	124.25	26.7	6.56	86†	979	£.02	F	1.0	1	£,0	00-15M
\$.85	19.621	8.7	<u> </u>	602	976	17	F	1.0	11	2.0	00-da7
65	155.22	28.7	6'\$6	919	106	<b>†11</b> 2	4	1.0	†	4.0	00-nst
85	124.85	6.7	S.76	969	<b>768</b>	5,42		7.0	†	1.0	Dec-99
85	1.521	6.7	501	<b>†</b> \$9	984	2.25	F	1.0	† <u>†</u>	£.0	66-AON
65	124.02	8.7	711	££9	£16	6.22	7	1.0	<del>  </del>	5.0	66-12O
65	6'751	1.8	L'\$6	LS9	118	8.02	7	1.0	† <u>†</u>	<b>*</b> 0	66-dəS
09	9.221	2.8	701	877	768	6,02	4	1.0	<del>  </del>	ε.0	66-8nV
09	5.221	8.7	8.88	148	989	7.7	4	1.0	4	1.0	ee-lul
8.09	70.421	2.8	L'66	809	966	17	4	1.0		2.0	66-nul
7.09	61.421	2,8	101	8179	£86	7.07	FI.	1.0	<del>  </del>	4.0	66-YEM
88	£6.E21	€.8	†01	889		7.12	4	1.0	<del>  </del>	2.0	99-1qA
65	<i>SL'</i> ES1	1.8	701 701	L89	676	6.12	4	1.0	<del>  </del>	2.0	99-7gM
65	5.521	£.7	£01	027	0701	4.22	4	1.0	<b>  </b>	£.0	Feb-99
1,82	7,421	£8.7	801	L99	696	07	됩	1.0	<b>  </b>	2.0	66-ngl
7Ò	d 70 1201	19 JU.2	וטא לב	70 7/8m	птроя/ст ОГ	10c (Cr	dr Ór	10 7/∌ш	72		
.~	1 10 139	10 113	10 . I/9m	10 [/611]	10 mayadun	IO I/am	10	. Næm	δr	J/9m	DATE
TEMP	111.100		ganicano	00:	0001100	(17.00) 2017	7: -	m\	(:-	07)	
	DEPTH	Hq	CHLORIDE	TDS	СОИDИС	(N 25) EON		s) EHN		TKN (92	
91M1	M 91MW	91MW	91MW	91MM	91MW	91MW		91MW		91MW	
			,	,							

L = Empty
F = Less than
B = Below/Non detect
6 = conditional/not required
8 = Other
L = Empty

Lamb Weston New Farm T-Lake Interflow Zone

Advang.    Comparison   Compari	E'SS         SS 64         S1 8         1 61         066         CVS         8C 6         d           9'SS         6L         7'8         1 61         CLC         0LS         C0 6         d           5'9S         88 6L         8         7 61         99C         09S         P 6         d           5'9S         88 6L         8         7 61         99C         09S         P 6         d           8'9S         LC'08         6 L         7 02         9LC         66S         7 56         d           1'LS         S808         7 8         1 61         66C         019         596         d           6'9S         87 18         78         1 61         66C         019         596         d           6'9S         87 18         56'L         7 12         85C         55t         796         d           6'9S         87 18         56'L         7 12         85C         55t         796         d           6'9S         7 18         8 6'L         7 12         85C         55t         796         d           9'9S         L118         8         1 761         68E         615         46'8 <th>  O</th> <th>70 70 70 70 10 70 70 70 70 70 70 70 70 70 70 70 70 70</th> <th>66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 66-14h 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Company   Comp	E'SS         55 64         51 8         1 61         066         EPS         8C6         d           9'SS         6L         7'8         1 61         ELC         0LS         E06         d           5'9S         88 6L         8         7 61         99C         09S         P6         d           8'9S         LC'08         6L         7'0Z         9LC         E65         75'6         d           1'L'S         5808         7C'8         1'61         66C         019         E96         d           6'9S         8C'18         7'8         1'61         66C         019         E96         d           6'9S         8C'18         56L         b'1Z         8SC         55b         296         d           6'9S         8C'18         56L         b'1Z         8SC         55b         296         d           6'9S         8C'18         56L         b'1Z         8SC         55b         296         d           6'9S         8C'18         8         b'0Z         18C         575         296         d           9'9S         6'08         1'8         L'61         68E         61S         45'	O	FO 70 10 70 70 70 70 70 70 70 70 70 70 70 70 70	6e-d-sh 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-raph 6e-rap
Company   Comp	E'SS         55 64         51 8         1 61         066         EPS         8C6         d           9°SS         6L         7'8         1 61         ELC         0.5         C06         d           5°SS         88 6L         8         7 61         99C         0.95         P6         d           8°SS         LC'08         6L         70Z         9L         665         75 6         d           1'L'S         5808         CC'8         981         PLC         99S         6C6         d           6°9S         8C'18         7'8         1'61         666         019         C96         d           6°9S         2C'18         562         P1C         88C         559         796         d           6°9S         2C'18         8         P'0Z         18E         P75         P6         d           6°9S         L1'18         8         P'0Z         18E         P75         P6         d           9°9S         L1'18         8         P'0Z         18E         P75         P6         d           9°SS         5008         1'8         L61         68C         61S         L68	0	70 70 70 70 70 70 70 70 70 70 70 70 70 7	69-19A 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D 69-19D
Company   Comp	ESS         SS 6L         S1 8         1 61         066         EVS         8 C6         d           9°SS         6L         2°S         1 61         £LC         0LS         £06         d           5°SS         88 6L         8         7 61         99£         09S         P6         d           5°SS         88 6L         8         7 61         99£         09S         P6         d           8°9S         L£08         6£         70Z         9£         56S         756         d           1°LS         S808         7£8         981         ₱£         99S         97S         676         d           1°LS         S808         7£8         981         ₱£         99S         676         d           6°9S         8718         78         1161         66C         019         £96         d           6°9S         8718         56'L         †17         85C         55t         796         d           6°9S         7*18         56'L         †17         85C         55t         796         d           9°9S         £118         8         †00         185         755         796	0	FO TO	69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM 69-yeM
Decorption   Color	E'SS         SS 64         S1 8         1 61         066         EVS         8 C6         d           9'SS         6L         7'8         1 61         £L'         0LS         £06         d           5'9S         88 6L         8         7 61         99E         09S         P6         d           8'9S         LE'08         6L         7 02         9L'         £65         75'6         d           1'LS         S8'08         ZE'8         981         PLC         9PS         67.6         d           1'LS         S8'08         ZE'8         981         PLC         9PS         67.6         d           1'LS         S8'08         ZE'8         981         PLC         9PS         67.6         d           6'9S         87'18         78         1161         666'         019         £9'6         d           6'9S         75'18         S6'L         †17         8SC         S5**         796         d           6'9S         71'18         S6'L         †17         8SC         55**         796         d           9'9S         L'118         8         1'02         18C         †75         †6<	O	FO TO	66-pu/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/ 66-po/
14   15   15   15   15   15   15   15	E'SS         SS 64         S1 8         1 61         066         EVS         8C 6         d           9'SS         6L         7'8         1 61         ELC         0LS         E06         d           5'9S         88 6L         8         7 61         99E         09S         P6         d           8'9S         LE'08         6L         70C         9LE         E6S         75'6         d           1'LS         S8'08         ZUS         981         7LC         9PS         6C6         3           6'9S         87'18         7'8         1'61         66C         019         E96         d           6'9S         87'18         56'L         7'1Z         8SC         55'V         296         d           6'9S         87'18         56'L         7'1Z         8SC         55'V         296         d           9'9S         L'118         8         7'0Z         18C         72'S         76'6         d           9'9S         6'08         1'8         L'61         68C         61S         75'         76'6         d           9'9S         6'08         1'8         L'61         68C         61S <td>0</td> <td>FO CO CO</td> <td>69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul</td>	0	FO CO	69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul 69-gul
14   15   16   17   18   18   17   18   18   17   18   18	E'SS         SS 64         S1 8         1 61         066         EPS         8C 6         d           9°SS         6L         7'8         1 61         ELC         0LS         E06         d           5°9S         88 6L         8         7 61         99C         09S         P6         d           8°9S         LC'08         6L         70C         9L'         E6S         75'6         d           1'L'S         S808         7C'8         981         7L'         9PS         6C'6         d           6'9S         8C'18         7'8         1'61         66C         019         E96         d           6'9S         8C'18         5'8         1'61         66C         019         E96         d           6'9S         8C'18         5'8         1'61         66C         019         E96         d           6'9S         8C'18         5'8         1'1Z         8SC         SS*         295         296         d           6'9S         8C'18         8         *'0Z         18C         *25         *26         d           9°S         6'08         1'8         L'61         68E         61S	0	70 70 70 70 70 70 70 70 70 70 70 70 70 7	99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 99-9ah 90-9ah 90-9ah 90-9ah 90-9ah 90-9ah
Decorption   Control   C	E'SS         SS 6L         S1 8         1 61         066         CVS         8C 6         d           9'SS         6L         2'8         1 61         £LC         0LS         £06         d           5'9S         88 6L         8         7 61         99£         09S         P6         d           8'9S         LE'08         6'L         70Z         9L°         66S         75°6         d           1'LS         58'08         7C'8         9'81         PLC         9PS         67 6         d           6'9S         8C'18         78         1'61         66C         019         £9°6         d           6'9S         8C'18         78         1'61         66C         019         £9°6         d           6'9S         8C'18         78         1'61         66C         019         £9°6         d           6'9S         8C'18         56'L         1'1Z         8SC         55t         £9°6         d           6'9S         7t'18         56'L         1'1Z         8SC         55t         £9°6         d           9'9S         L'118         8         t'0Z         18°         75°         P°<	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	F0 70 70 10 70 70 70 70 70 70 70 70 70 70 70 70 70	99-yol 99-yol 90-net 90-net 90-net 90-net 90-yel 90-net 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel 90-yel
1.652   1.652   1.653   1.654   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.655   1.65	ESS         SS 6L         S1 8         I 6I         O6E         CVS         8C 6         d           9°SS         6L         7'8         I 6I         CLC         OLS         CO 6         d           5°SS         88 6L         8         C 6I         99E         O9S         P 6         d           8°9S         LC08         6L         TOZ         9LE         C6S         TS 6         d           1'LS         58'08         TC8         9'8I         PLC         9PS         6C 6         d           6'9S         8C18         T8         I 16I         66C         O19         C96         d           6'9S         8C18         T8         I 16I         66C         O19         C96         d           6'9S         7C'18         56'L         P'1Z         8SC         55t         C96         d           6'9S         7C'18         56'L         P'1Z         8SC         55t         C96         d           9'9S         L118         8         P'0Z         18C         PTS         P'6         d           9'9S         6'08         I 1'8         L'6I         68C         61S         L'6'8 <td>0</td> <td>70 70 70 70 10 10 70 70 70 70 70 70 70 70</td> <td>66-yoN 00-day 00-day 00-day 00-teM 00-yeM 00-yeM 00-yeM 00-yoN 00-yoN 00-yoN 00-yoN 00-yoN 00-yoN</td>	0	70 70 70 70 10 10 70 70 70 70 70 70 70 70	66-yoN 00-day 00-day 00-day 00-teM 00-yeM 00-yeM 00-yeM 00-yoN 00-yoN 00-yoN 00-yoN 00-yoN 00-yoN
Section   Sect	E'SS         55 64         51 8         1 61         066         EPS         8C 6         d           9°SS         6L         7'8         1 61         ELC         0.65         E06         d           5°9S         88 6L         8         7 61         99C         09S         P6         d           8°9S         LC08         6L         70Z         9LC         E65         75 6         d           1'LS         5808         7C8         981         PLC         9PS         6C6         d           6°9S         8C 18         7'8         1'61         66c         019         E96         d           6°9S         2V 18         56L         P1Z         8SC         25*P         296         d           6°9S         2L1'18         8         P40Z         18C         P7S         296         d           9°9S         L1'18         8         P40Z         18C         P7S         P6         d           9°SS         6'08         1'8         L'61         68C         61S         L6'8         d           L9'SS         59'08         70'8         0Z         8FC         9Z8         1E'6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	70 70 70 10 10 70 70 70 70 70 70 70 70 70	00-nsl 00-1sM 00-1sM 00-ysM 00-qsM 00-qs2 00-guA 00-qs2 00-yoN 00-yoN 00-yoN 00-ool
Company   Comp	C:55         55 6L         51 8         161         066         24 9         4         4         4         8         6 1         6 1         6 1         6 1         6 1         6 1         6 1         6 1         6 1         6 1         6 1         6 1         6 1         6 2         6 2         6 2         7 8         1 6 1         6 2         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8         7 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7:0 7:0 7:0 7:0 7:0 7:0 7:0 7:0	00-nel 00-d-34 00-1gM 00-qsM 00-mul 00-guA 00-guA 00-goA 00-30 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32 00-d-32
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Section   Sect	E 55         55 6L         51 8         1 61         066         E 75         8 C6         d           9 75         6L         7 8         1 61         ELC         0L5         C0 6         d           5 95         88 6L         8         7 61         990         095         7 6         d           8 95         L C08         6L         7 02         9L         E 65         2 5 6         d           1 L5         58 08         CC8         981         7 L         995         67 6         d           6 95         82 18         7 8         1 61         666         019         19 6         d           6 95         7 18         56 L         7 12         85         55 b         29 6         d           6 99         2 18         8         1 61         666         019         19 6         d           6 99         2 18         8         7 02         185         55 b         29 6         d           9 95         2 18         8         7 02         185         755         7 66         d           9 95         6 7 18         8         7 02         185         725         7 66 <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>7:0 7:0 7:0 7:0 7:0 7:0 7:0 7:0</td> <td>00-1gM 00-7gA 00-ygM 00-nut 00-lut 00-lut 00-qsZ 00-13O 00-toN 00-toN 00-toN</td>	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7:0 7:0 7:0 7:0 7:0 7:0 7:0 7:0	00-1gM 00-7gA 00-ygM 00-nut 00-lut 00-lut 00-qsZ 00-13O 00-toN 00-toN 00-toN
Second Process   Seco	E 55         55 6L         51 8         1 61         066         E 75         8 C 6         d           9 55         6L         7 8         1 61         E 6         0.05         60 6         d           5 95         88 6L         8         7 61         996         095         7 6         d           8 95         L 108         6 L         7 02         9L         665         25 6         d           1 125         58 08         2 08         981         7 6         995         67 6         d           6 95         82 18         7 8         1 61         666         019         59 6         d           6 95         7 18         56 L         7 17         85 6         55 p         29 6         d           7 99         1 118         8         7 02         18 6         57 6         d         d           6 95         27 18         56 L         7 17         85 6         55 p         29 6         d           6 99         1 118         8         7 02         18 6         7 5         7 16 d         d           9 95         6 08         1 8         7 02         18 6         6 15	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7:0 7:0 7:0 7:0 7:0 7:0 7:0 7:0	00-7qA 00-7M 00-nut 00-lut 00-lut 00-qs2 00-qs2 00-yoV 00-voV 00-yoV 10-nst
Left   Store	C 55         55 6L         51 8         161         062         243         161         062         243         161         062         243         161         062         243         161         062         243         243         243         243         243         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244         244	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.0 2.0 2.0 2.0 2.0 2.0 2.0	00-nul 00-nul 00-lul 00-guA 00-qəS 00-13O 00-13O 00-09U 10-nsl
Color	C 55         S5 6L         S1 8         1 61         06E         C 55         8 6C         d           S 95         88 6L         8         7 61         99E         09S         0 6C         2 6C         3         0 7 6C	'0 '0 '0 '0 '0 '0 '0 '0 '0 '0 '0 '0 '0 '	2.0 2.0 1.0 2.0 2.0 2.0 2.0 2.0	00-lul 00-guA 00-qeS 00-12O 00-00 00-290 10-nsl
Section   Sect	C 55         S5 6L         S1 8         1 61         066         EFS         8 C6         d           9 55         6L         7 8         1 61         £L         0.25         £C 66         d           5 95         8 8 6L         8         7 61         990         095         F6         d           8 8 95         L 7 08         6L         7 00         9L         665         75 6         d           1 L 25         5 8 08         7 08         981         FL         995         67 6         d	'0 '0 '0 '0 '0 '0 '0 '0 '0 '0 '0 '0 '0 '	7.0 1.0 2.0 2.0 2.0	00-guA 00-de2 00-10O 00-voN 00-20 10-nsL
Company   Comp	C 55         S 5 6L         S 18         1 61         06         E 5         8 8 6L         8 7 61         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 20         20 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.0 1.0 2.0 2.0 2.0 2.0	Sep-00 Oct-00 Nov-00 Dec-00
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Second Process   Seco	C.22         22.6         21.8         1.61         072         67.2         20.6         9           6.5         2.8         1.61         6.6         6.7         6.7         6.6         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7         6.7<	.0 .0 .0	2.0 2.0 2.0	Nov-00 Dec-00 I0-nst
Left	C. 22 23 390 1.91 1.91 6E E42 8E.9 H	.0 0.	2.0 2.0 4.0	Dec-00 10-nsl
Color   Colo		.0	2.0 4.0	10-nsl
1.651   818   57   825   849   771   d   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740   740				
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Second Property   Second Pro				
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Fee-O3 0'15 E 0'15 E 15'8 0'18 328 324 328 328 11'09 0'19 U 10'19 U 1				
Fee-03 0'.15 L 0'.15 L 1575 0.18 238 27 328 27 8'.18 12'03 0'.15 L 1575 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.1			**********	********
Fee part of the first part of	L'PS 15'6L 28'L PT 1215 1129 5'61 E	1	***************	A
Script State				·
Sec_03 0.72 L 0.12 10.5 12.6 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0				·
See House 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-4-	******************	
Tot-03 0'.15 L 0'15 L 15'8 0'.25 21 23' 27' 27' 27' 27' 27' 27' 27' 27' 27' 27			******************	
-ese (pau -ese (pau) -ese (p	8 17'4 674 326 23 8 8 8.3			
uu p ssə- Ajdurg 57 1.LE 5.01			********	E0-voV
uey ssə- Ajdurg	6'\$\$ \ \( \frac{15'\text{5}}{6} \) \ 81'8 \ \ \( \frac{52}{8} \) \ 888 \ \ 889 \ \( \frac{721}{38} \) \ \ \( \frac{1}{38} \)	I'0 H	27.0	Dec-03
uey ssə- Ajdurg	10.5			
ueth ssa.				
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Below/Non detect			tootob ne	
tequired		pa		
ы				

## T-Lake Interflow Zone Lamb Weston New Farm

							0t		780				€.7					ĐΛ
······································	<b>p</b> .72	Γ''''	LL'#8	TT	£2.8	T1	Sξ	I	737	ī	96†	T	7.2	1	21.0	F	27.0	Dec-03
1	€.09		7.48	•	£7.7	1	Lε	ļ	770	1	L87		<b>\$</b> 0.8	H	21.0	4	27.0	E0-voN
	9.09	†	96'78	i	8.26	11	36.5	<b>!</b>	907	1	587	1	£5'9	В	£ <b>5</b> .9	Н	27.0	Co-12O
	<b>\$.29</b>	1	98.48		££.8	· · · · ·	52.21		700	1	947		24.2	1	<b>\$</b> '0		96.0	Sep-03
1	8.29	11	78.48	i e	2.8	11	38		761	1	847	1	6.24	8	†·····	4	27.0	€0-guA
munij.	6.68	<u> </u>	27.48	***************************************	9.7	1	2.85	ļ	897	į	947		97.2	†	£1.0	-	98.0	£0-Inf
	2.09	<del> </del>	67.48	†	ĽĽ	11	98	<del> </del>	787	1	947	ļ	28.2	I.	21.0	4	27.0	£0-nul
····	LS	<del> </del>	98.48	<b>;</b>	15.8	<del>  </del>	2.85	ļ	262	·	015	ļ	26.9	8	·	4	27.0	EO-YEM
	4.72	ļl		ļ	*******************	<del>  </del>		ļ	797	ļ	067	ļ	69'9	B	<b>-</b>	4	27.0	Apr-03
			25.48	ļ	\$0.8	ļ <b>ļ</b>	LE	ļ		ļ	B	ļ		d	ļ		26.0	K0-18M
	5:95	ļ	48.48	ļ	68.7	<del>  </del>	2.7.5	<u> </u>	529	ļ	187	ļ	42.2	B	ļ	-	70.1	Feb-03
	2.82	ļ	27.48	ļ	70.8	ļļ	7.5	ļ	957	ļ	16†	ļ	5				*************	
<u>‡</u> .	1'95	ļi	6'78	ļ	82.T	ļļ	2.95	ļ	872	ļ	96†	ļ	67.2	В	ļ	ļ,ļ	48.0	£0-nsl
	5.95	ļ	7.58	ļ	₹L'L	ļļ	2.7.5		897	ļ	£6†	ļ	£1.3	B	<b></b>	占	27.0	Dec-02
ļ.	9.95	ļl	2.28	ļ	95,T	1	5.5	ļ	775	ļ	68†	ļ	4,8	В	ļ	占	2T.0	20-voN
	£.82	ļ	56' <del>1</del> 8	ļ	rz.r		7.5	ļ	757	ļ	887		£.4	8		님	27.0	20-15O
ļ.	6.22	ļ	1.28	ļ	82.T	<u> </u>	36.5		072	ļļ	<b>†6</b> †	ļ	8.9	4	21.0	님	2T.0	Z0-dəS
	95	ļl	1.28	ļ	St,7	<u> </u>	2.95	ļ	757	ļ	105	ļ	LS'L	1	48.0	8		70-8nV
	L'95	<u> </u>	7.28	ļ	St.7	<u> </u>	68	ļ	767	ļ	809	ļ	69.T	4	78.0	님	6'1	20-lut
	6.TZ	ļ	25.28	<b>.</b>	82.T	<u> </u>	07	į	857	į	¢0\$	ļ	19'9	F	18.0	님	6.1	20-nul
<u>i</u> .	9.09	<u>                                      </u>	24.28	ļ	67.T	<u> </u>	L'14	<u> </u>	<b>767</b>	ļ	605	ļ	61.8	4	48.0	7	6.1	20-yeM
	1.22		1.28		\$8.7	<u>[</u> ]	7.14	ļ	172	į	505	į	t7.7	4	48.0	Н	6.1	Apr-02
<u>1</u>	6.02		92,28	1	25.8	11	L.24	Į	887	<u>i</u>	924	<u> </u>	28.8	4	48.0	크	6.1	Mar-02
	9.72		19.88		LÞ'8	<u>[</u> [	7.54	<u> </u>	<b>†87</b>	1	77.		85.8	긤	<b>†8</b> '0	3	6.1	Feb-02
<u>I</u>	6.88		60.38		Lt`8	]	L.E.	1	987	1	LLt	<u> </u>	24.6	4	<b>78.0</b>	F	6.1	50-nel
l	2.95		99.98		8.22		7.54		567		£6†		70.6	占	48.0	긤	6.1	Dec-01
	5.42		9,88		8		7.54		918	Ī	909		٤.01	F	48.0	4	6'1	10-voV
	1.82		62.88		167	1	43.2	Ĭ	116	Ī	805		1'01	8		4	6'1	10-32O
	1.59		99.98	1	8.8		L'tt		667		515		<b>≯</b> 0′6	긤	<b>\$8.0</b>	4	6'1	10-dəS
T	9.29	T T	2.28	1	8.8	1	7.61		342	T	252		21.9	8	<u> </u>	В	6'1	10-2nV
1	09		84.3	1	87.8	1	£7,84		ELE	1	255		26.6	4	\$8'0	В	61	10-lnf
1	9.19		20.58	1	81.8	1 1	6.88	†····	107	İ	989		1.01	4	1.0	H	1.0	10-unf
	65	1	61.28	1	£8.7	11	79		£6£	1	LS9		£11	- H	1.0	В	1.0	10-yeM
<u>-</u>	5.62	1	£9.28	1	2.8	1 1	5.84		618	1	£05	1.	98.8	Н	1.0	11	9.0	10-1dA
<del>-</del>	2.82	1	15.28		SE.8	<b>!</b> 1	ES	ļ	LΦE	1	874		97.6	4	1.0	11	2.0	I0-1sM
	85	1	26.28	<b>†</b>	25.8	11	1.64	<del> </del>	303	<b>†</b>	977	ļ	8.7	Н	1.0	11	8.0	Feb-01
1	LS		25.28	•	70.8	•	9.54		7.1.7	1	<b>L1</b> †		L'L	E	1.0	11	T.0	10-ngl
<u>-</u>	2,72		<b>\$5.28</b>	1	25.8	11	1.85	<del> </del>	5.27	1	389		9.9	H	1.0	11	⊅'0	Dec-00
	2,52	1	84.55	•	2.8	1	8.7.5		717	1	372		6.9	F	1.0	11	<b>5.</b> 2	00-AON
····†·	8.88	1	T.£8	†	£1.8	11	6.9£	ļ	780	†	707	ļ	2,8	4	1'0	11	9.2	00-12O
<del>-</del>	85	1	48.32	•	28.7		6.44	ļ	898	•	<b>L85</b>		8,2	1	1.0	11	2.0	00-dəS
	2.09	<u> </u>	9.28	ļ	22.8	††	9.95	ļ	072	<del> </del>	<b>7</b> /£	<b></b>	8.8	l i	1.0	<del>  </del>	2.0	00-2nV
	£.62		92.18	•	26.7	·····	2,24	ļ	005	ļ	898		2.7	4	1.0	<del>  </del>	٤.0	00-lut
	2.82	<del>  </del>	84.08	<del> </del>	20.8	╁┈╌╅	7.7.5	ļ	<i>L</i> 97	<del> </del>	343		L'9	4	1.0	┼	2.0	00-nul
	1,92		£2.97	·		┼┼	7.75	ļ	927	<b></b>	658	ļ	8.9	4	1.0	<del>  </del>	2.0	00-yeM
	6.72	ļļ	21.87	ļ	8 86.7	<del>  </del>	£.8£	ļ	727	ł	948	ļl	<b>7</b> .9	4	10.0	<del>  </del>	£.0	Apr-00
	20.82	ļ	2.TT	ļ			7.8£	ļ	997	·	79E	ļ	4.9	7	1.0	F	2.0	00-18M
	85	<del> </del>	******************	<del> </del>		<del>  </del>	*******************	ļ	152	<del> </del>	585	<b> </b>		*********	1.0		2.0	Feb-00
	2.72	<del> </del>	5.27	ļ	L8.T	ļļ	2.7£	ļ		ļ	***********		5.9	7	1.0	<del> </del>	4.0 	00-nst
-			2£.87		28.7	<del>  _  </del>	9.7.5		557	1	87.£		L'\$		1 U	<del>  _  </del>	V U	
-	***************************************	9	***************************************	9		9		9		9		9		9		9		Dec-99
, ,				9		9		9								9		66-AON
		9	***************************************	9		9		9		9		9		9		9		66-12O
<u>į</u>		ļl	***************************************	ļ		ļļ				ļ		<b></b>				ļļ.		66-dəS
	***************************************	ļ		ļ		ļļ				ļ		ļ				ļļ.		66-8nV
ļ.		ļ		ļļ		<u>ļļ</u>		ļ		ļļ		ļl		ļ		<u>  </u>		66-InC
		ļ	***************************************	ļ		1				ļ						ļļ.	***************************************	66-unf
Į.	***************************************	ļ	*******************************	ļ		11				ļļ			************************			<u> </u>	**************	66-VEM
	***************************************	ļ	**************	ļ		ļİ				įi			***********			<u> </u>	******************	66-1qA
	***************************************					<u> </u>				<u>[]</u>		<u></u> ]				<u> </u>	***************************************	96-75M
																		Feb-99
				1	,													ee-nel
ò	占	ÓΓ	139]	70	.u.z	īδ	J\gm	σr	7/8w	σr	шэ/ѕочшп	ÓΓ	J\gm	δr	7/8m	ÓΓ	7/8tu	DATE
		1		1						1								1
-7	LEW	T	DEPTH	T	Hq	DE	СНГОВ		LDS	10	СОИВГ	(N	NO3 (35	(N	se) EHN	(١	LKN (ss p	
		1	81MW			1		1		1		~ 4				1		

 $\begin{array}{l} L = Empty \\ F = Less than \\ B = Below/Non detect \\ 6 = conditional/not required \\ 8 = Other \\ \end{array}$ 

T-Lake Interflow Zone Lamb Weston New Farm

							£\$		155				9					νΛG
T	2.52	T	1.74		11.8	T	2.52		718		069	Г Т	10.8	1	21.0	4	27.0	Dec-03
	6.72		98.94		L9'9	*************	2,52	***************************************	315		<b>†69</b>		975	Н	21.0	1	94.1	£0-voN
	2.68		86'97		L9.T		2.52		318		107		19'9	8		4	27.0	£0-15O
	9.09		7.74		£6.7		S.T		767		<b>†</b> 02	<u>[</u> ]	L'9	<u> </u>	15.0	ļ	70° l	£0-dəS
	7,49		LS'Lt		6'L		85		988	ļ	L69		60:8	В	ļ	Ы	. 27.0	€0-guA
	2.59		81		65.7		85		320	ļ	007	<b> </b>	6.22	В			1.5	£0-lut
	L'65		55.84		₱9°L		85		91‡	ļ	107	ļ	78.T	В	ļ		1.04	E0-yeM E0-nul
	LS	ļļ.	1'67		9.T		2.82		97†	ļ	769	ļļ	58.8 7£.8	8	ļ		8£.1 68.0	F0-1qA
	£.82	<b></b>	£.64		98'L		55		71t 370	ļ	££9 579	ļ	88.2	<u>a</u>	67.9		\$6.0	E0-7gM
	L'95		80.64 6.84		81.8 42.8		Lt tt		324	ļ	509	·	87.£	8		<del> </del>	6.0	Feb-03
	LS	-	7.84	·	78,7		εŧ		078	ļ	685	<del>  </del>	67.9	8	ļ	Н	27.0	E0-nsl
	4.72	-	87	 	74.T		<i>tt</i>		855	i	L19	<b> </b>	26.5	8		3	27.0	Dec-02
	2.72		8.7£	·	£2.7		5.24		332		L19	!····	9.2	В	ļ	4	27.0	20-voV
	9.95		8†		17.7		St		818		LIE		54.8	В	[	В		20-12O
	9.82		51.84		9£'L		<b>††</b>		332		619		69.2	8		4	27.0	20-dəS
	2,82		7.8t		42.7		5.44		967		<b>†1</b> 9		6'9	Н	18.0	4	6.1	Z0-Sn¥
	2.62		6.84		77`L		£1.5,		394		909	<u>[</u> ]	15.2	크	78.0	Н	6.1	20-lul
	T.23		€.64		22.T		L^\$7		675		615	ļl	1.9	4	18.0	4	6.1	20-nul
	£.82	<u> </u>	t'6t	ļļ	94,7	ļļ	7.04	.,	376	ļ	185	ļļ	L'S	4	<b>†</b> 8	1	6'1	20-yeM
	SS	ļļ.	5L'67	<b></b>	Lt.T	ļ	7.85		787	ļ	\$85	ļļ	5.22	크	\$8°0	4	61	20-1gA
	1'75	ļļ.	7 <i>L</i> .64	ļļ	90.8		38.2		308	ļ	988	ļļ	8°t	·	<b>₽8.0</b>	7	6.1	Z0-35M
	4.22		6t	<b></b>	26.7	<b></b>	7.2£		90£	ļ	975 202	<b>  </b>	51.8 26.2	4	\$8.0 \$8.0	7 7	6°1	Teb-02
	4,22 6.22	ļļ	8t 5.8t	<b></b>	\$6.7 56.8	ļļ	7.8£		908		688	<del>  </del>	21.2	<u> </u>	18.0	3	6'1	10-29G
<u> </u>	£.32	<b></b>	81.84	<b></b>	\$8.7		2.75		965		099	<b>!</b> -	TZ.£	3	18.0	4	61	10-AON .
	8.22	╫	94,84	<del>  </del>	21.8		7.85		555	l	555	<del>  </del>	82.2	B		4	6.1	10-13O
·······	£.68	<b></b>	27.84	<b></b>	T.8		2.85		198		755	<b>!</b>	87.9	F	18.0	1	6'1	10-dəS
	8.09	irri	86.34	1	9.8		7.04	***********	648		69\$	1	ε.ε	В		Я	6.1	10-2n¥
	09	1	£7.94	1	87.8		\$2.85		330		595		65.2	占	48.0	F	6.1	10-lut
	<b>7</b> '65		1.08		8		5.24		330		885		5.23	4	1'0		<i>T</i> .0	10-nul
	8.23		£.02		6.7		<b>\$</b> .0\$		304		98\$		91.2	4	1.0		€.0	10-yeM
	9.95	<u>                                      </u>	<b>9£.0</b> 2	<u>                                     </u>	81.8		2,04		LtE		897	<b>.</b>	2.2	4	1.0	ļļ	2.0	10-1qA
	85	<u> </u>	67.05	<u> </u>	8.25	ļļ	7.85		855	ļ	232	ļļ	1.2	4	1.0	<b>  </b>	T.0	10-18M
	£.72	ļļ.	74.64	ļ	1,8	ļ	2.7.5		378		605	ļ	1.2	7	1.0	<del>  </del>	2.0 E.0	10-nst Feb-01
	9.72	<b>  </b>	8.84	ļļ	26.T	ļ	5.8£		340 341	ļ	68 <del>7</del>	<del>  </del>	8.4	4	1.0	╂	£.0	00-29G
	1.72 4.72	ļ	28.74 64.84	į	2,8 28.7		9.85		356	ļ	575		ε.ε	4	1.0	<del>  </del>	4.0	00-voV
	9.65	<del>}</del> -	76.74	ļ	6.7	İ	8,84		609	ļ	075	<del>  </del>	9,8	1 1	1.0	1	1.0	00-12O
	85	•	26.84	•	28.7		6'77		898	ļ	L85	t	8.8	H.	1.0	11	2.0	OO-dəS
	65	<del> </del>	97.84	†	2.8	1	4.24		<b>†</b> /£		185	t1	7.9	4	1.0	1	2.0	00-guA
	8.09	1	70.64	•	6'L		95		Stt		685	<b>!</b>	8.8	Э	1.0	1	€.0	00-lnf
	7.65	1	67,64	1	8.7	1	€.34		96€		188	i	<b>†</b> '9	1	1,0	T	2.0	00-nul
	8.62	1	85.64	•	6'L		<b>t</b> '6t		717		055		<b>č.</b> 9	Н	1.0		4.0	00-ysM
	2.65		18.64		6`L		Lt		965		<b>†9</b> 5		<b>†</b> '9	4	1.0		2.0	00-1qA
	LL'LS	]	55.64		6`L		4.24		998	<u> </u>	675	<u>[]</u>	2.9	4	1.0	ļļ	2.0	Mar-00
[	T.82		1.64		6.7		<b>t</b> t		168		<b>**</b> **	ļļ	<i>L</i> .9	4	1.0	ļļ	2.0	00-ds4
<u> </u>	85	<u>                                      </u>	12.02	اــــِـــا	₹8.7	ļ <u>.</u> ļ	43.4		955	<u>                                      </u>	645	<u>                                     </u>	2.9	님	1.0	<del> </del>	2.0	00-nsl
9		9		9	***************************************	9		9		9		9		9		9		66-99G
9		9		9		9		9	***************************************	9		9		9		9		66-13O
		у		<u> </u>	***************************************			У										66-dəS
	***************************************	<del>  </del>	***************************************	<del> </del>		<del> </del>				<b> </b>		<b> </b>	***************************************	<u> </u>		<del>  </del>		66-8nV
		•		<b>†</b>		<b></b>						<b></b>		·		<b>†</b>		66-Inf
		†		1		<u> </u>					***************************************	1		İ	***************************************	t		66-unf
	***************************************	† <u> </u>	,	1	***************************************	1			***************************************				,	•		1		66-YEM
	***************************************	1		1	***************************************	<b></b>			***************************************					Ī	***************************************			66-1qA
	***************************************	1		*	******************	•	***************************************						***************************************					99-16M
	*************************	7			***************************************													Feb-99
	***************************************				***************************************				***************************************									66-ngl
ÓΓ	됨	ÓΓ	1993	δr	'ns	δr	J\gm	ÓΓ	J\gm	ÓΓ	шэ/ѕоцшп	ÓΓ	J\gm	δΓ	J/gm	ÓΓ	J\gm	DATE
-	TEMP	F	DEPTI		Hq	DE	CHLORI		TDS	1	CONDO	(N	SE) EON	(N	ss) EHN	(N	IKN (92	
	61MW		61MW		61MW		61MW		61MM								61MM	

$$\begin{split} L &= Empty \\ F &= Less than \\ B &= Below/Non detect \\ 6 &= conditional/not required \\ 8 &= Other \end{split}$$

## Table A. Proposed Soil Monitoring for LWC and Paradise Fields

I			\$ 500 esta	Each field	%	TKN				
I			I	Each field	%	Organic Matter				
1,2,3,4,5	Missist as		Ī	Each field	mg/Kg	Exchangeable Potassium				
1,2,3,4,5			1	Each field	g001/pəm	Exchangeable Magnesium				
1,2,3,4,5	1.48.24.	de de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	Ī	Each field	g001/pəm	Exchangeable Calcium				
1,2,3,4,5		<b>10:30</b> - 11:50	Ī	Each field	g001/pəm	Exchangeable Sodium				
1,2,3,4,5			Ī	Each field	'n's	Hq				
1,2,3,4,5			Ī	Each field	%	EZb				
1,2,3,4,5		97,222,33	I	Each field	mg/Kg	Sulfate (as S)				
1,2,3,4,5	100	tion in the second	I	Each field	mg/Kg	(4 ss) 4 əldslisvA				
1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	5,4,5,1,1	Each field	sədəni	Soil Moisture				
1,2,3,4,5	2.106.6	1,2,3,4,5	2,4,5,1	Each field	шэ/очшш	Soluble Salts (ECe)				
1,2,3,4,5	100	1,2,3,4,5	5,4,5,1	Each field	mg/Kg	(N 2s) muinommA				
1,2,3,4,5	Market Barre at	1,2,3,4,5	1,2,3,4,5	Each field	mg/Kg	Vitrate (as V)				
	ncrements <sup>5</sup>	Depth I		Sample Point	Parameter					
Once Per Cycle	Monthly 3	Spring 2	Fall 2	Soil Monitoring Schedules						

## Notes:

- 1 <u>LWC Fields</u> include CI, C2, C3, C4, C5, C6, C7, C8, C9, C10, WL11, WL12, WL13, WL14, HL5 and HL10. Paradise Fields include P1, P2, P3, P4, P5, P6, P7, P8, and P9.
- LWC Old Fields nutrient status will be represented by samples from Fields A, D, F and L collected once each fall and tested for nitrate-nitrogen, annonium-nitrogen and soluble salts by conductivity of saturation paste extract.

  2 Fall samples will be collected to represent soil conditions near the end of the crop growing season. Spring samples will be collected to represent soil conditions after the winter period and prior to the primary crop growing season.
- A minimum of six subsamples will be collected and composited to represent each depth increment 3 Soil moisture monitoring will be conducted approximately monthly to aid irrigation management and annual reporting, not as compliance. Additional monitoring may be performed at the discretion of Lamb-Weston. Soil moisture monitoring is via in-place access tubes at 1 to 2 locations per field by portable soil moisture measurement equipment.
- 4 Once per permit cycle in the fall prior to permit expiration (e.g., fall 2008 prior to permit renewal).
- 5 Depth increments refer to the following: l = 0.12 inches, l = 12.24 inches, l = 24.36 inches, l = 36.48 inches, l = 36.48 inches,
- 5 = 48-60 inches. Samples will be collected to 5 feet or refusal.
- Appreviations:
- N = nitrogen, ECe = electrical conductivity of a saturation paste extract, TKN = total Kjedahl nitrogen, P = phosphorus (Olsen's or Morgan's extract depending on soil pH), S = sulfur, ESP = exchangeable sodium percentage.

ÐΛ					8.0		755		13			
Dec-03		<u></u>					]	Ĭ	· · · · · · · · · · · · · · · · · · ·	į		
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 $F = less \ than$ 

B = below/non detect